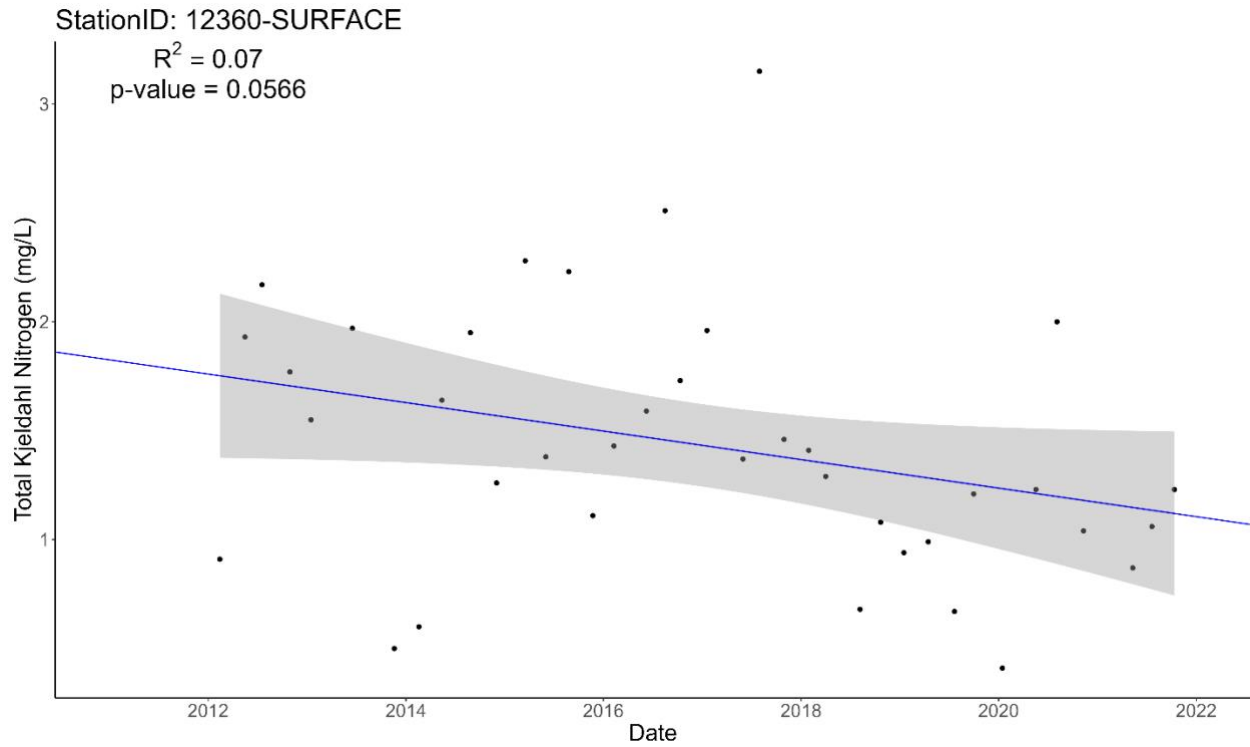


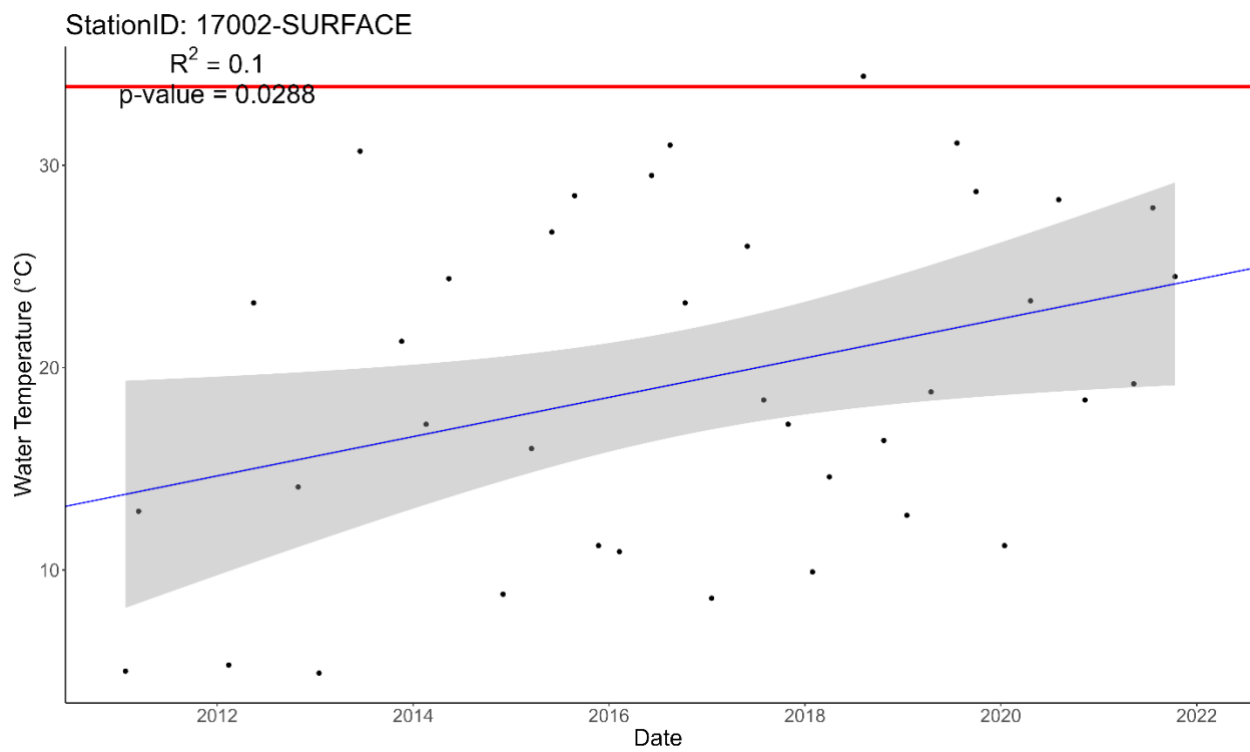
Appendix X

Significant temporal trend graphs for all stations in the Upper Colorado River Basin by segment.

1411 – E.V. Spence Reservoir

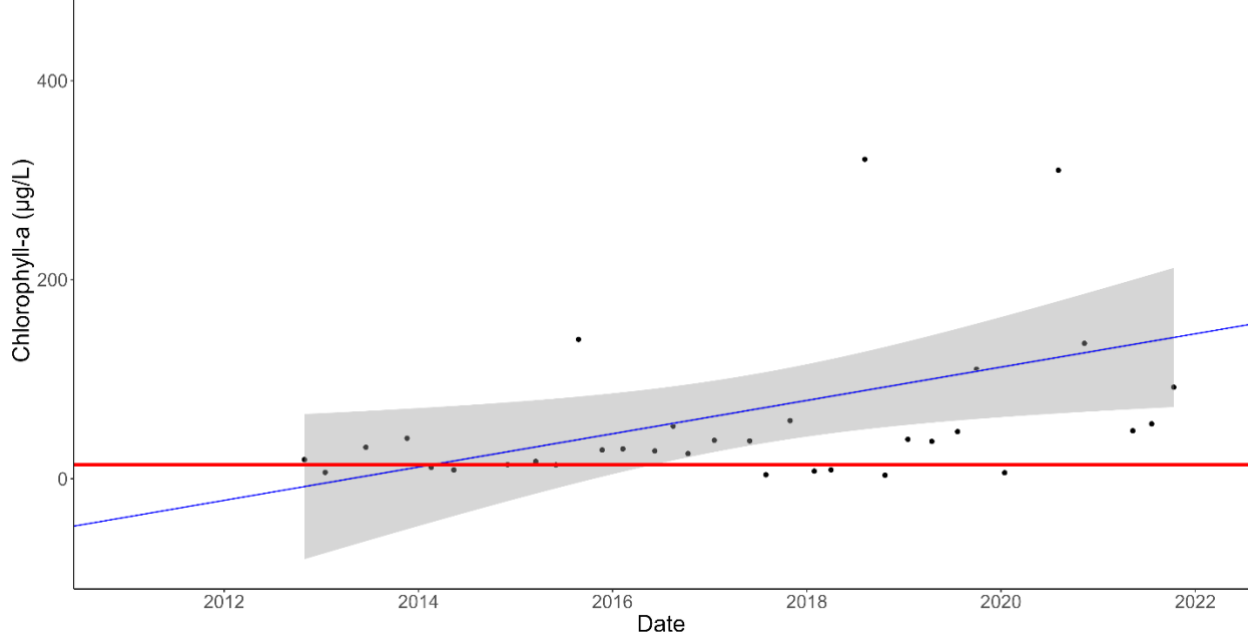


1412 – Colorado River below Lake J.B. Thomas



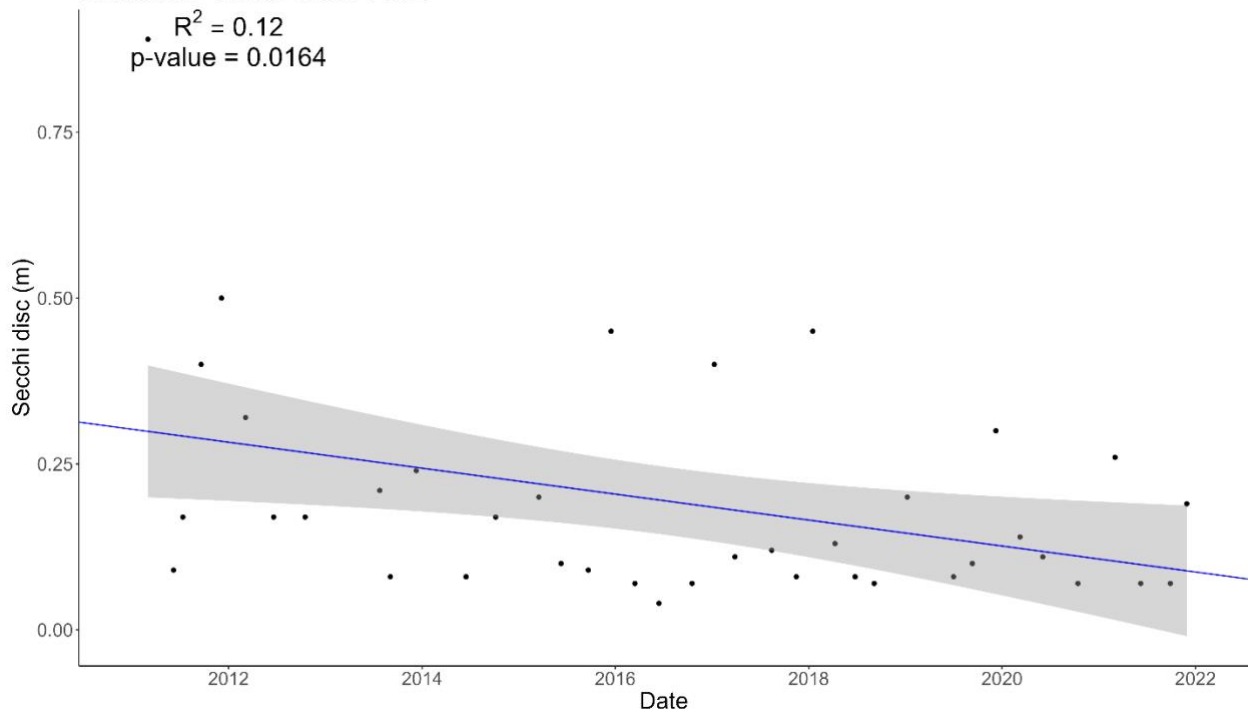
StationID: 17002-SURFACE

$R^2 = 0.13$
p-value = 0.0193



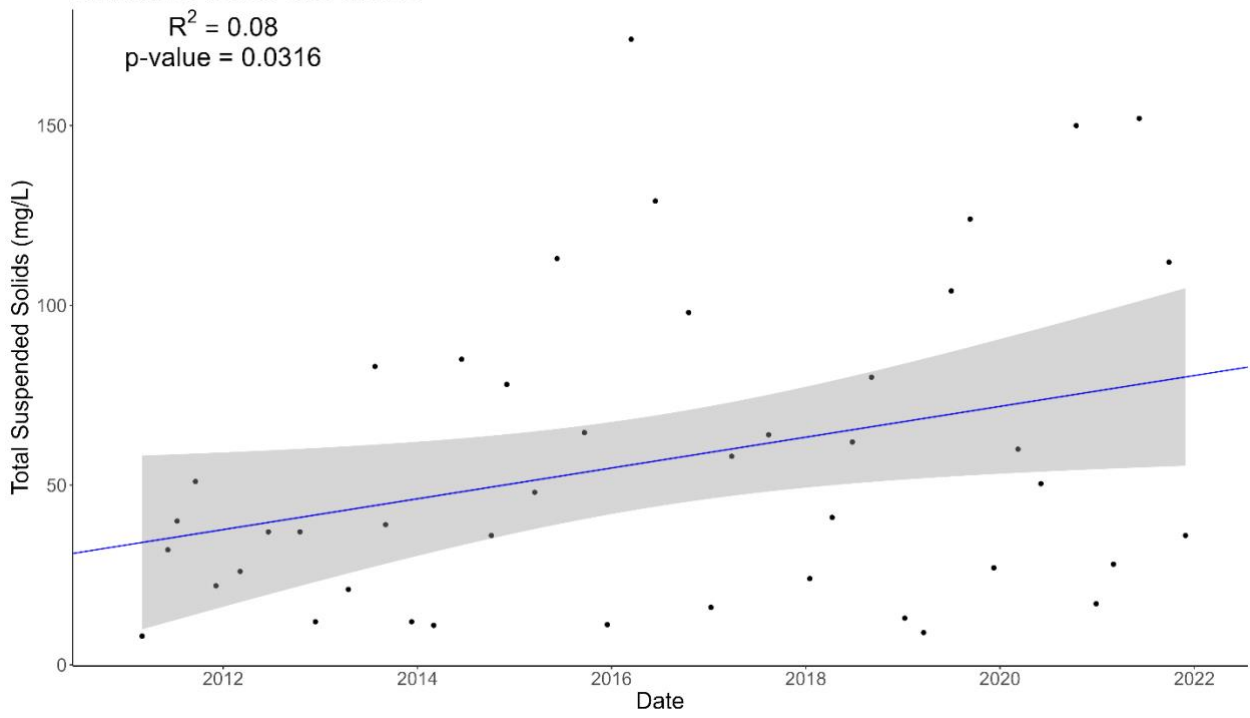
StationID: 12363-SURFACE

$R^2 = 0.12$
p-value = 0.0164



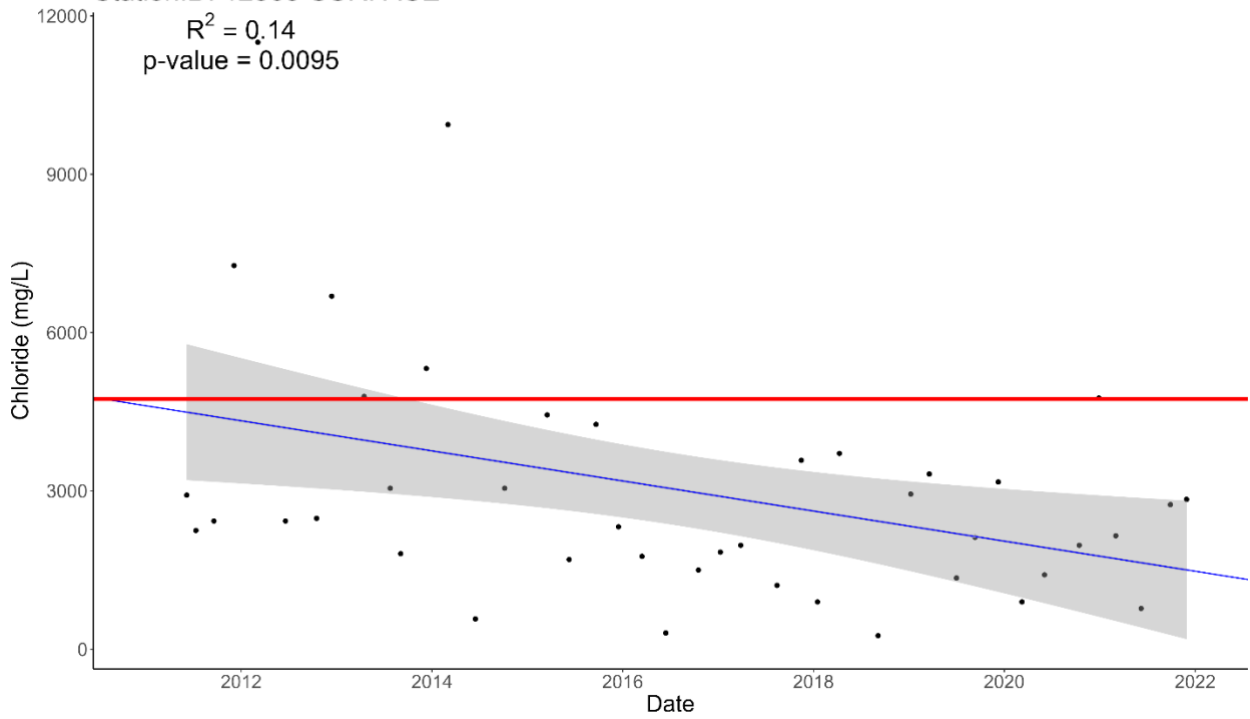
StationID: 12363-SURFACE

$R^2 = 0.08$
p-value = 0.0316

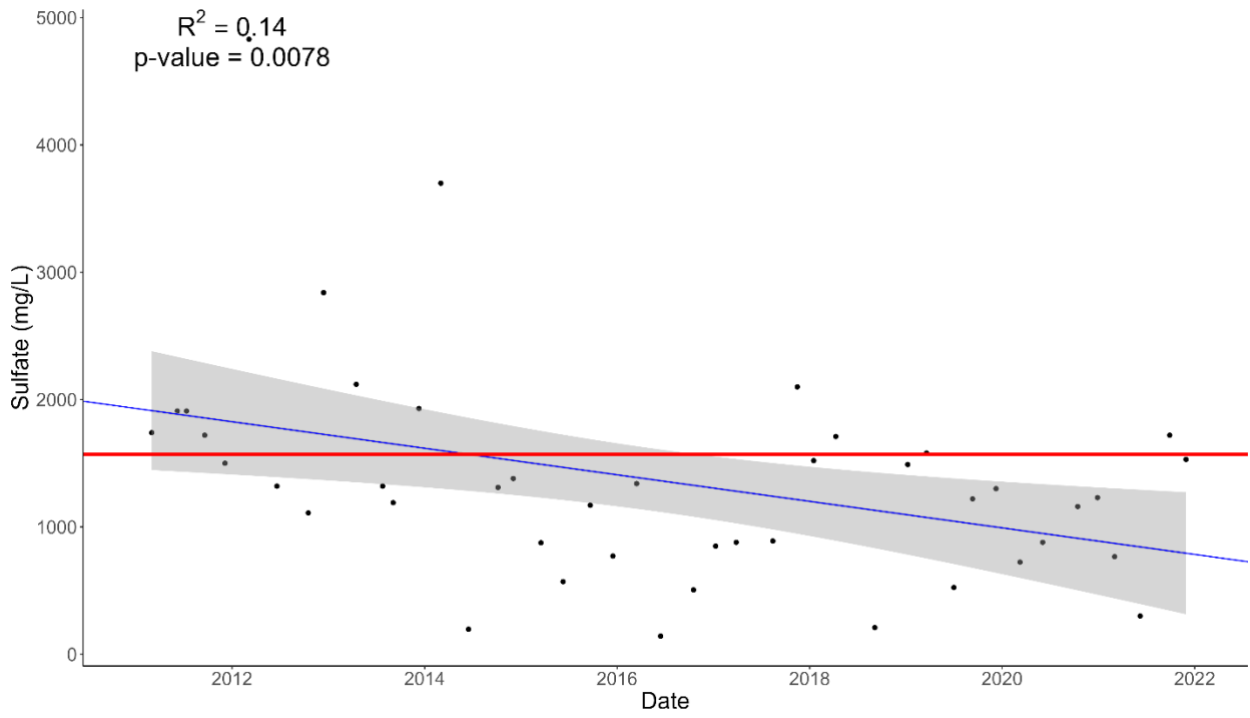


StationID: 12363-SURFACE

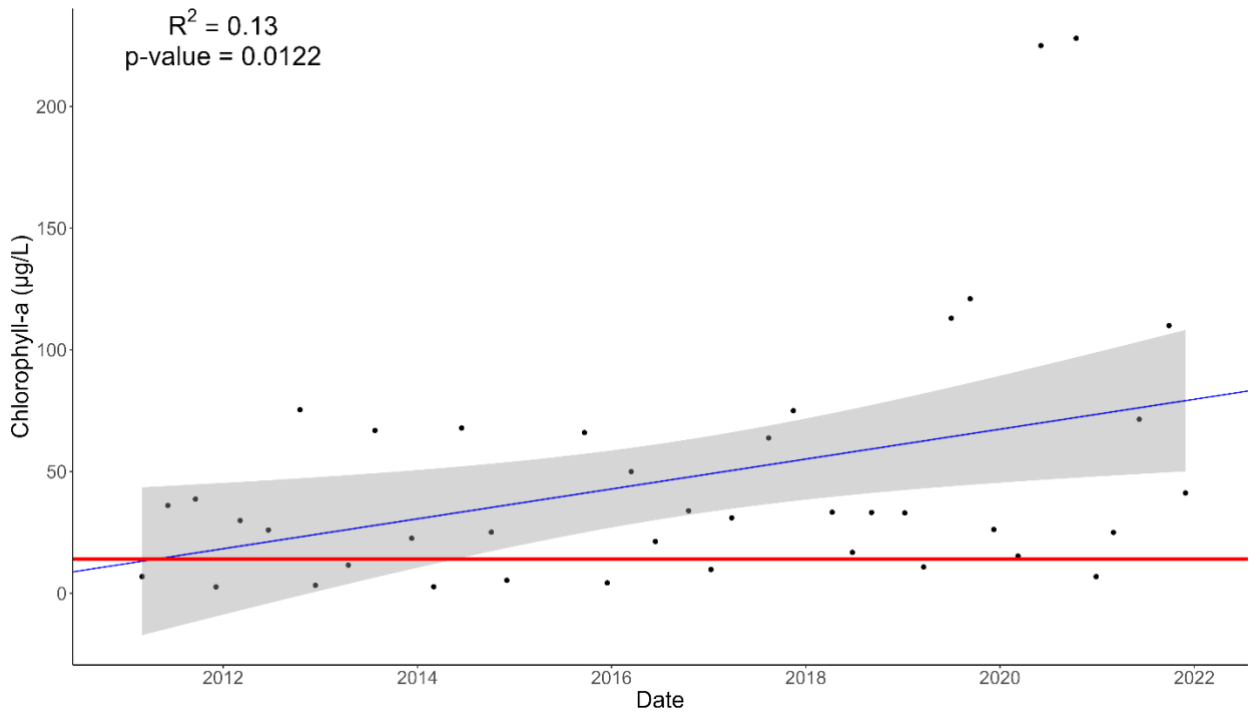
$R^2 = 0.14$
p-value = 0.0095



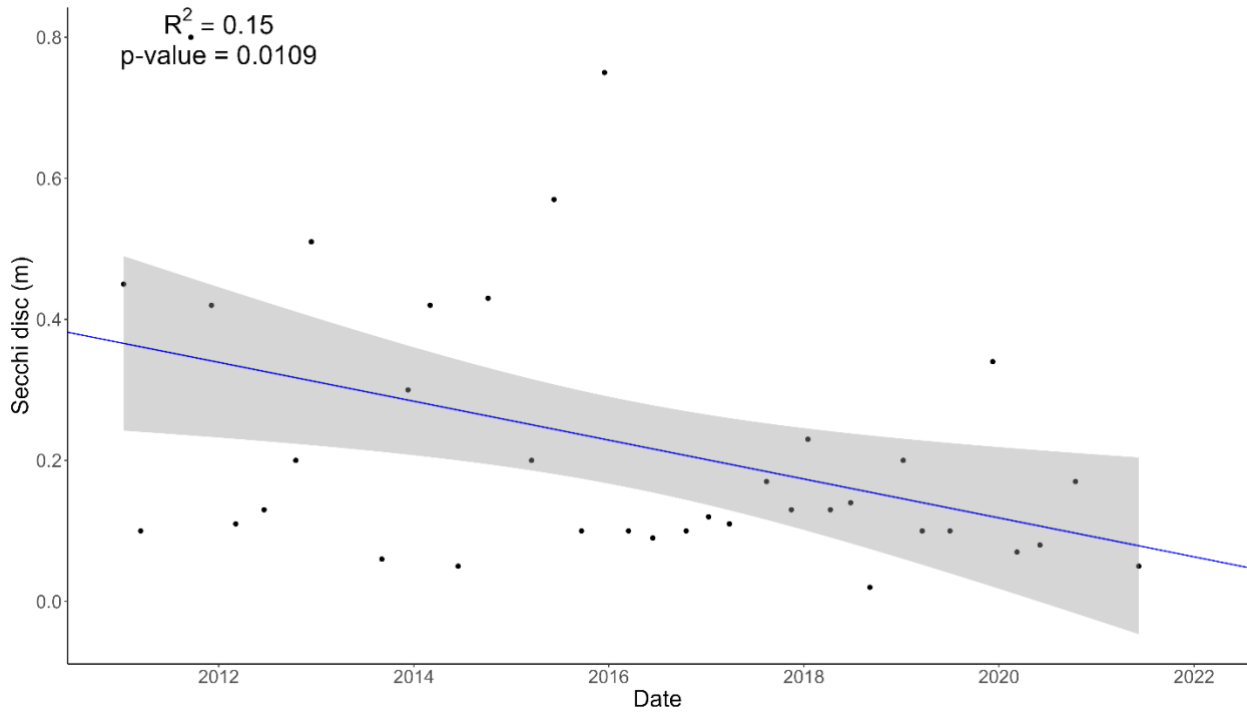
StationID: 12363-SURFACE



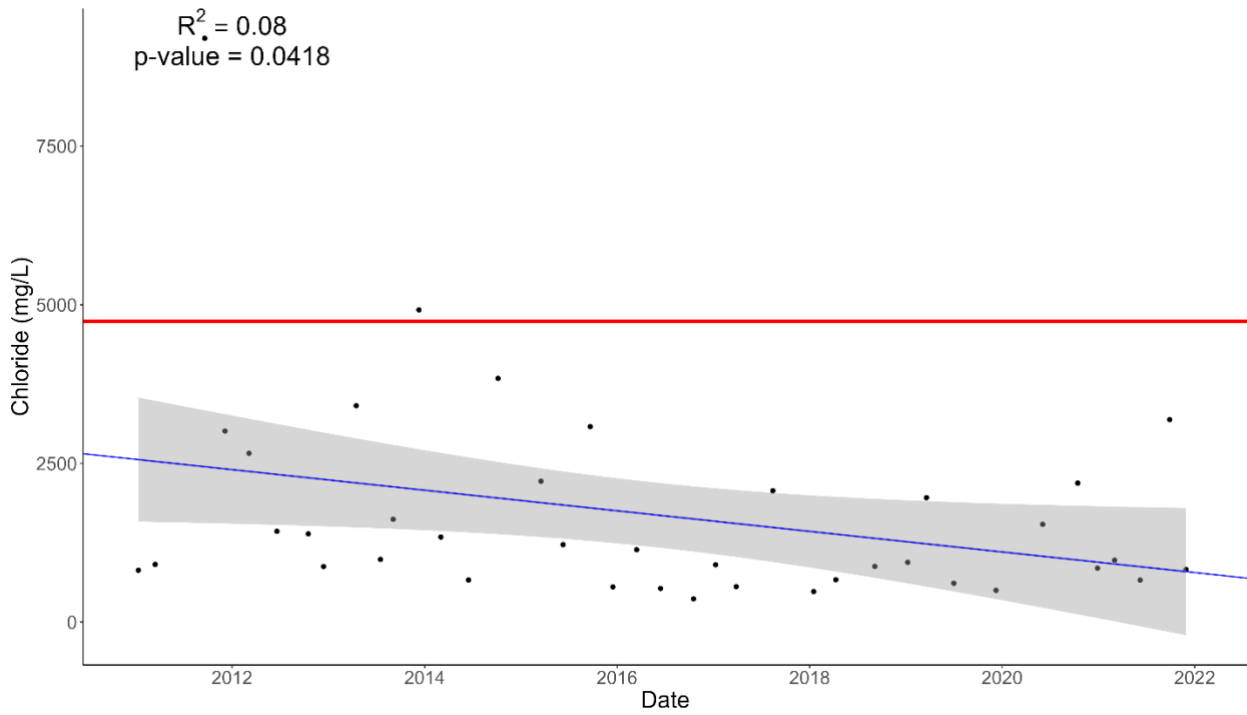
StationID: 12363-SURFACE



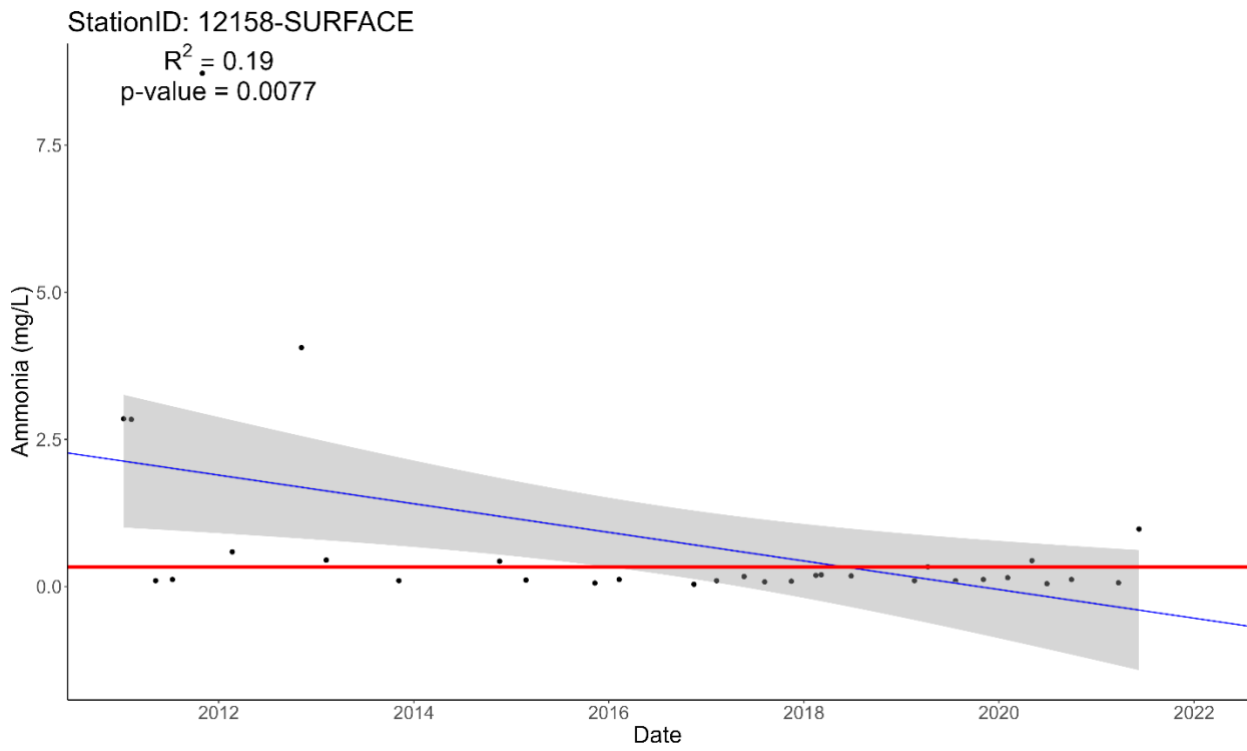
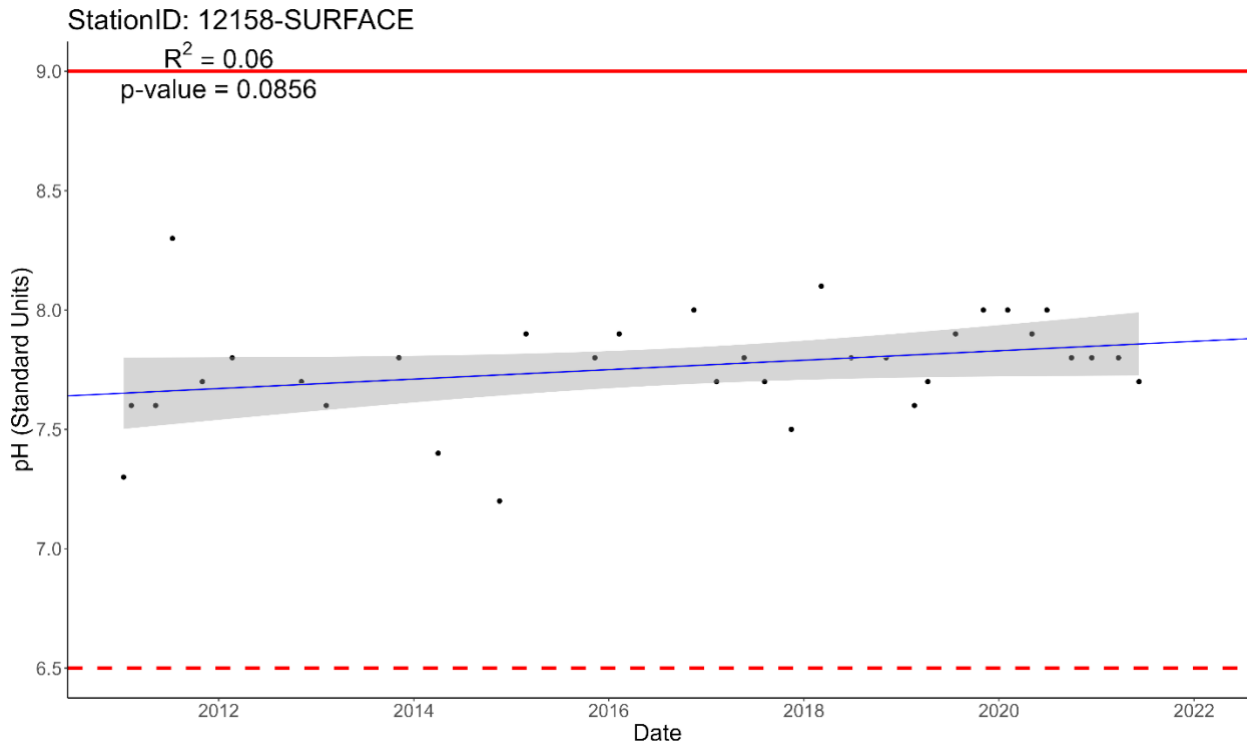
StationID: 12365-SURFACE



StationID: 12365-SURFACE

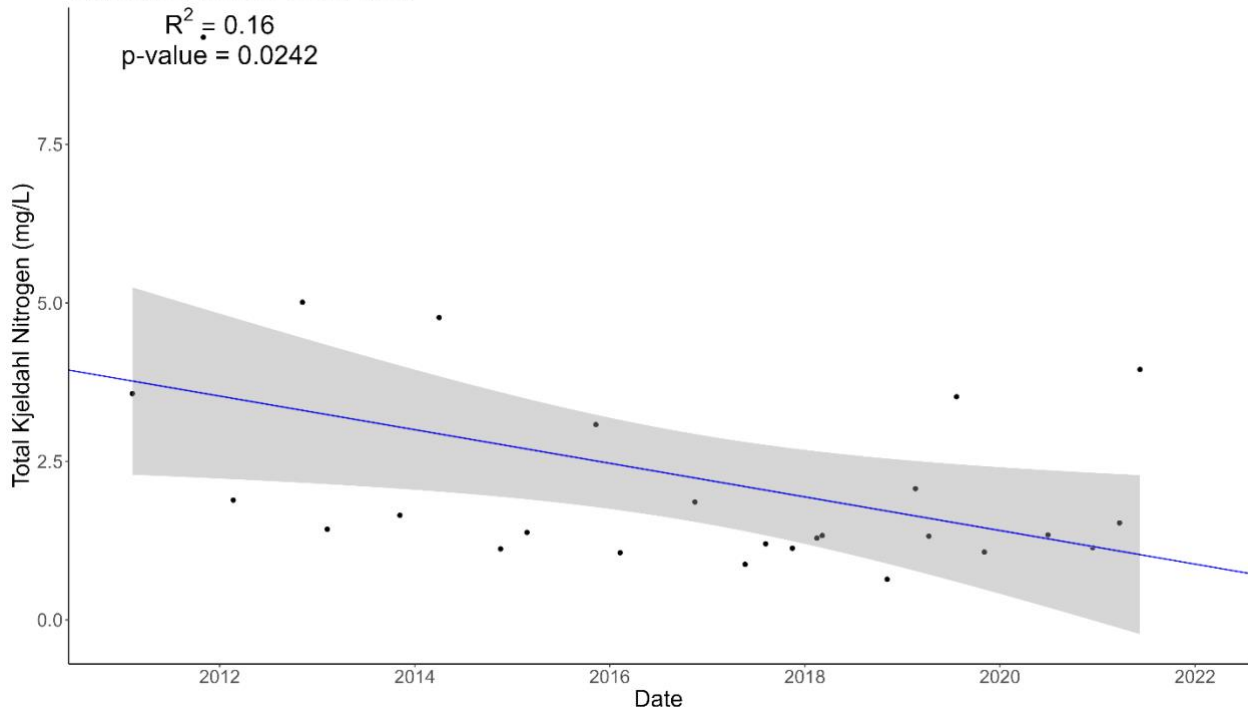


1412B – Beals Creek



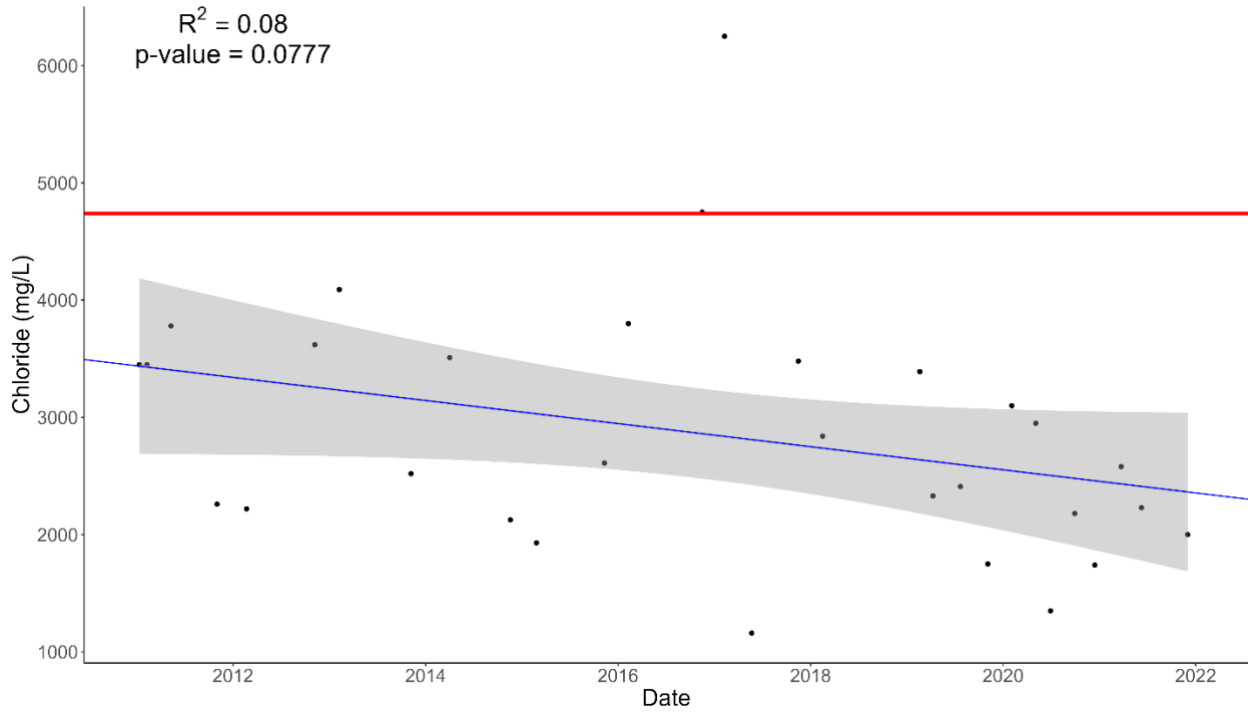
StationID: 12158-SURFACE

$R^2 = 0.16$
p-value = 0.0242



StationID: 12160-SURFACE

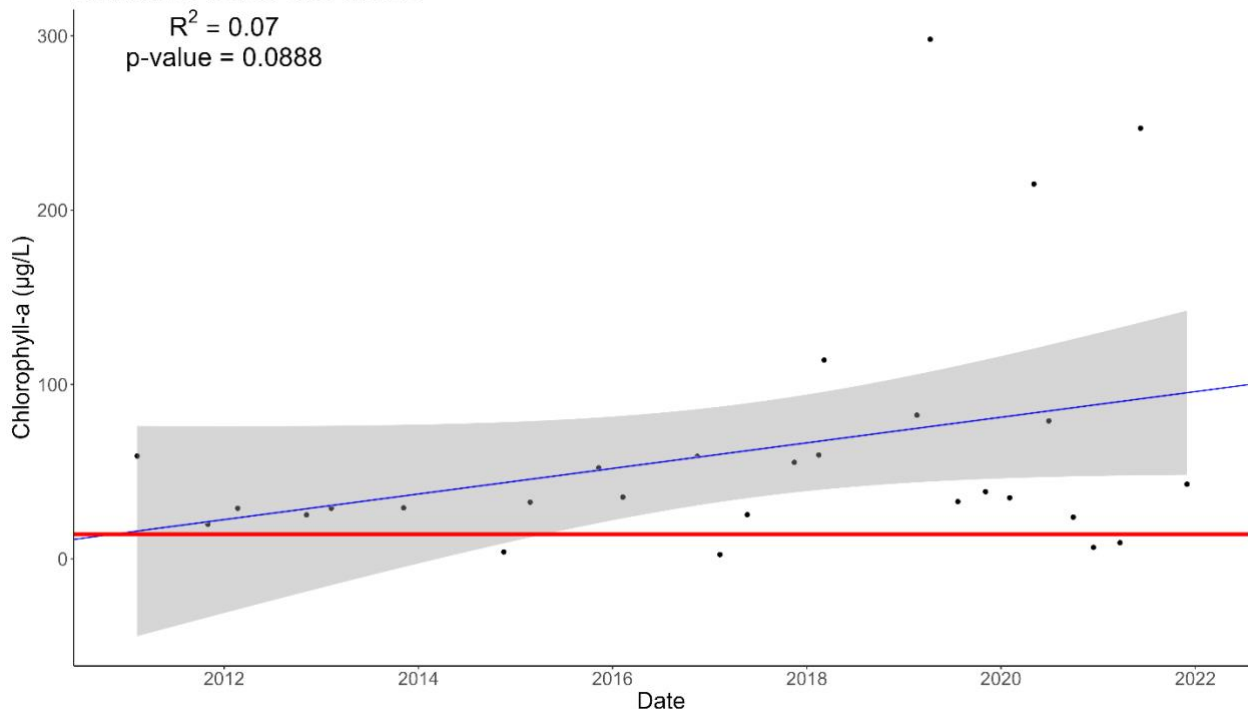
$R^2 = 0.08$
p-value = 0.0777



StationID: 12160-SURFACE

$R^2 = 0.07$

p-value = 0.0888



1413 – Lake J.B. Thomas

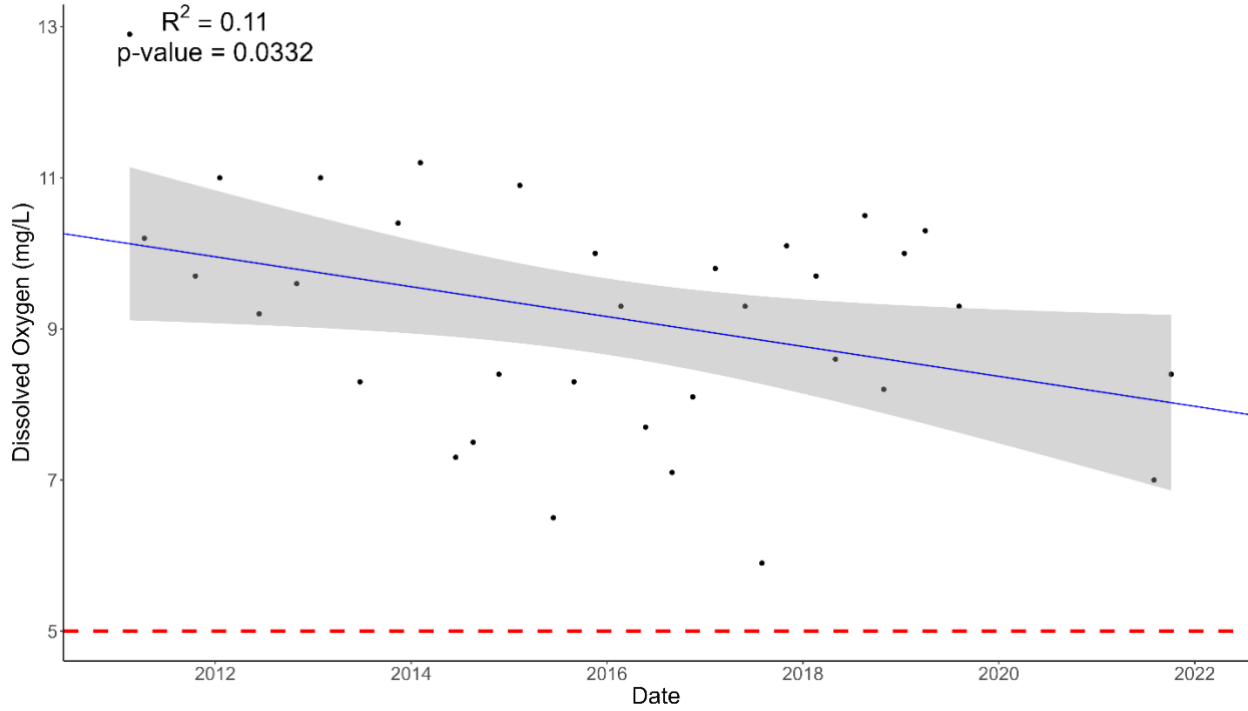
No significant trends.

1426 – Colorado River below E.V. Spence Reservoir

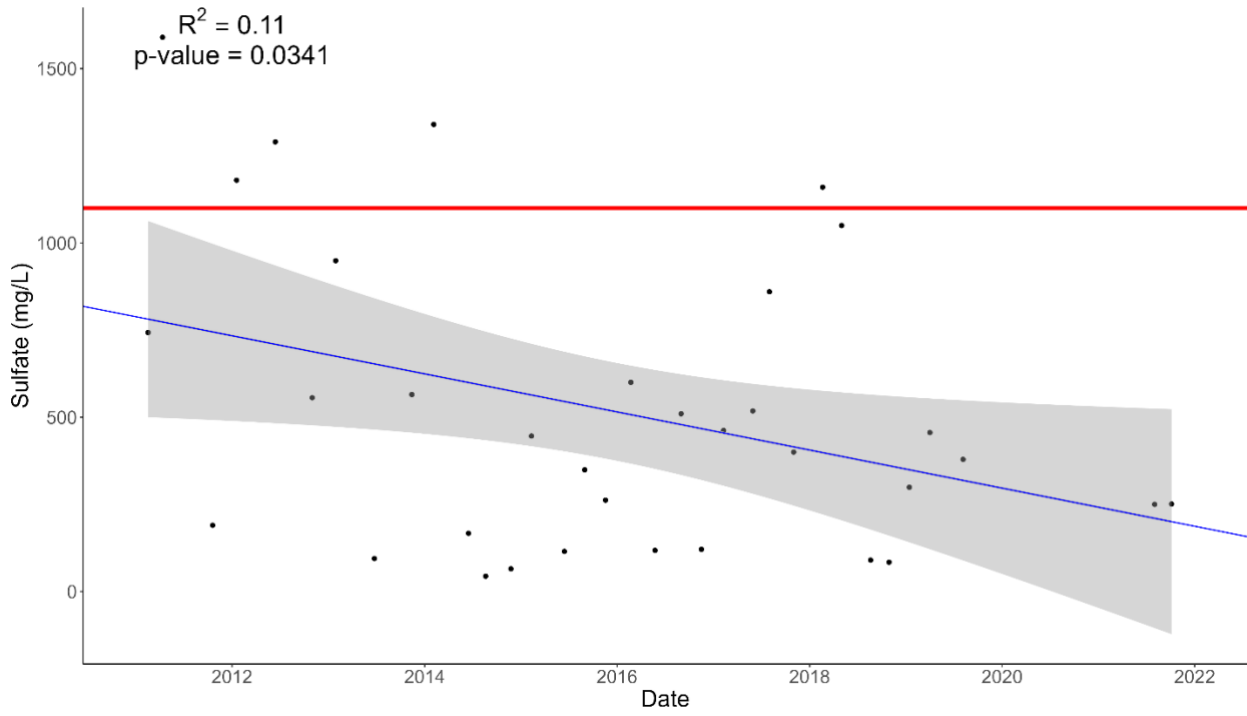
StationID: 17244-SURFACE

$R^2 = 0.11$

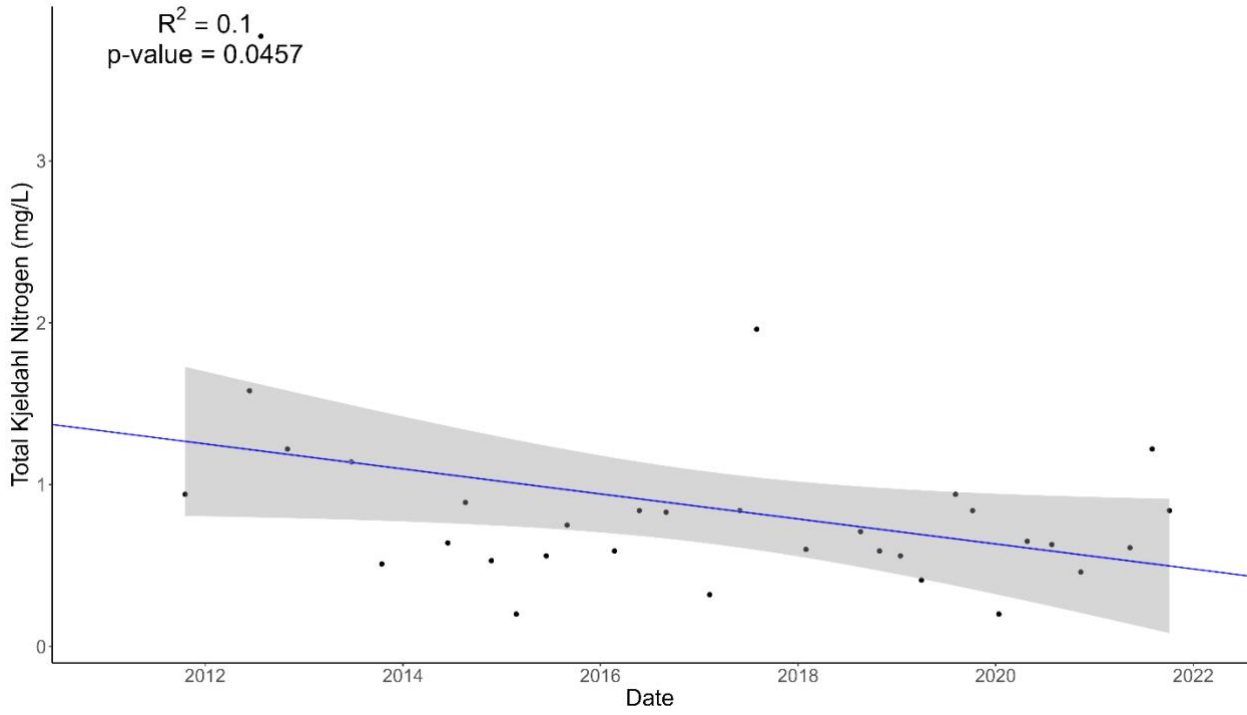
p-value = 0.0332



StationID: 17244-SURFACE

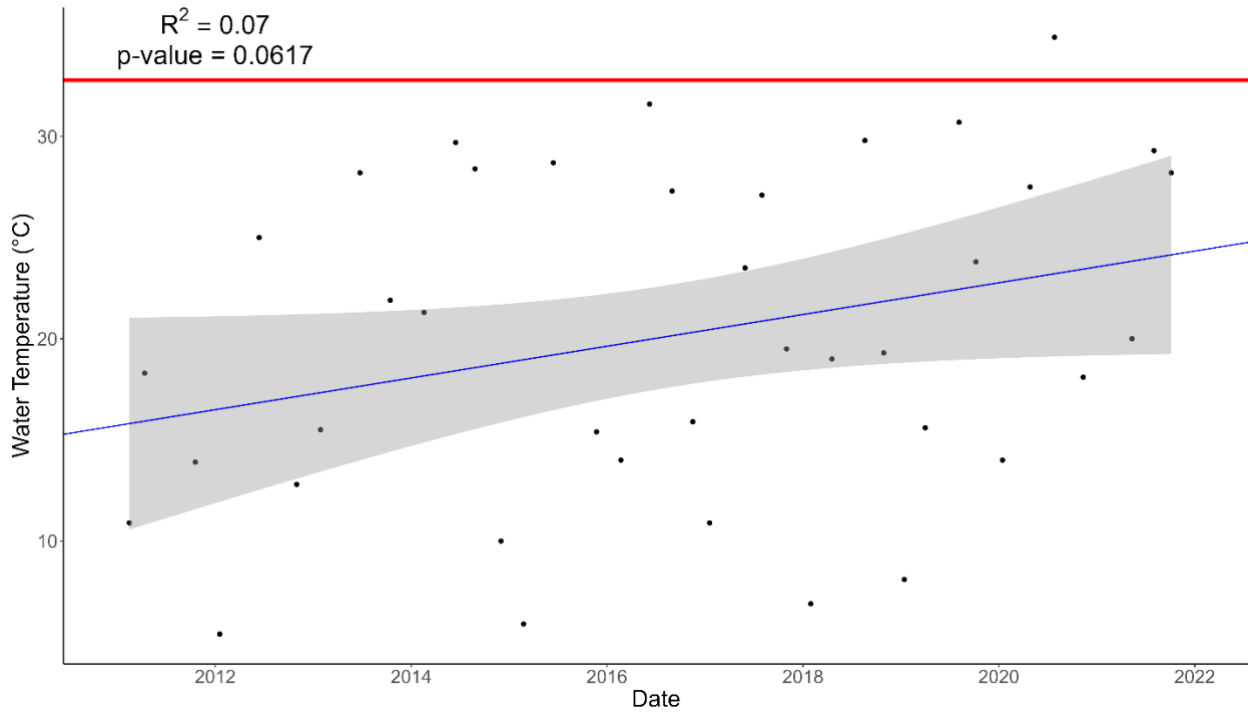


StationID: 13651-SURFACE



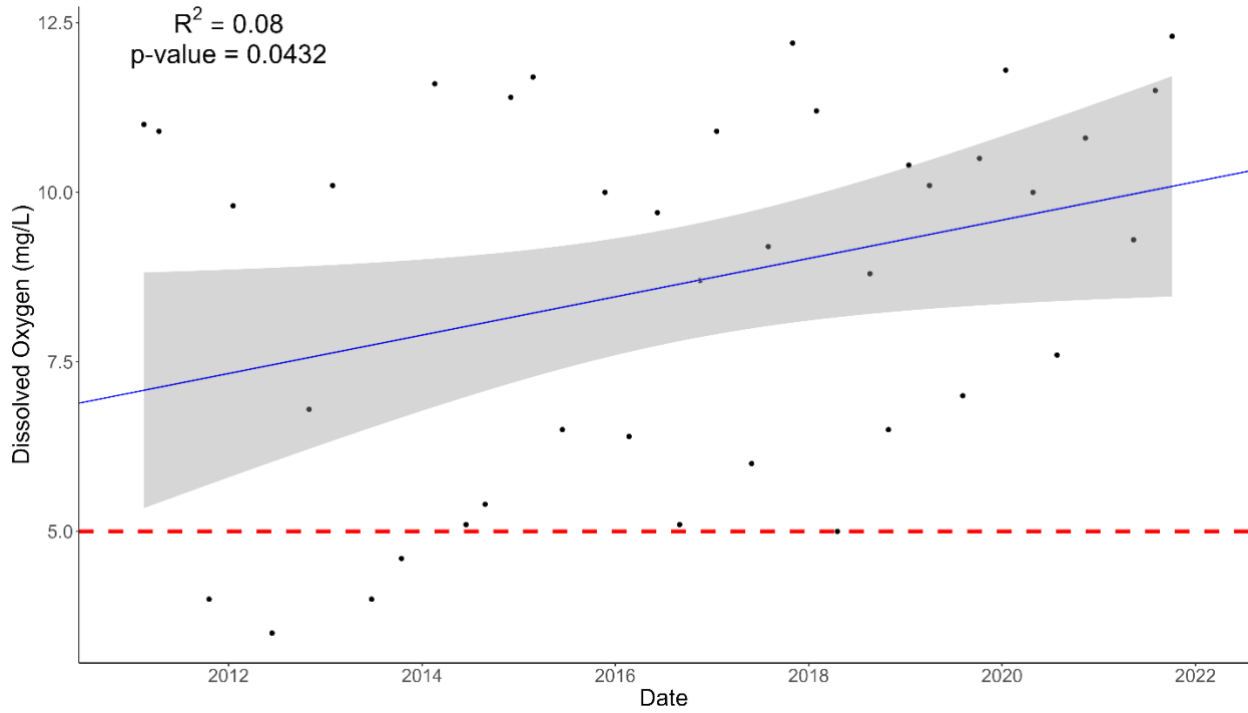
StationID: 16901-SURFACE

$R^2 = 0.07$
p-value = 0.0617



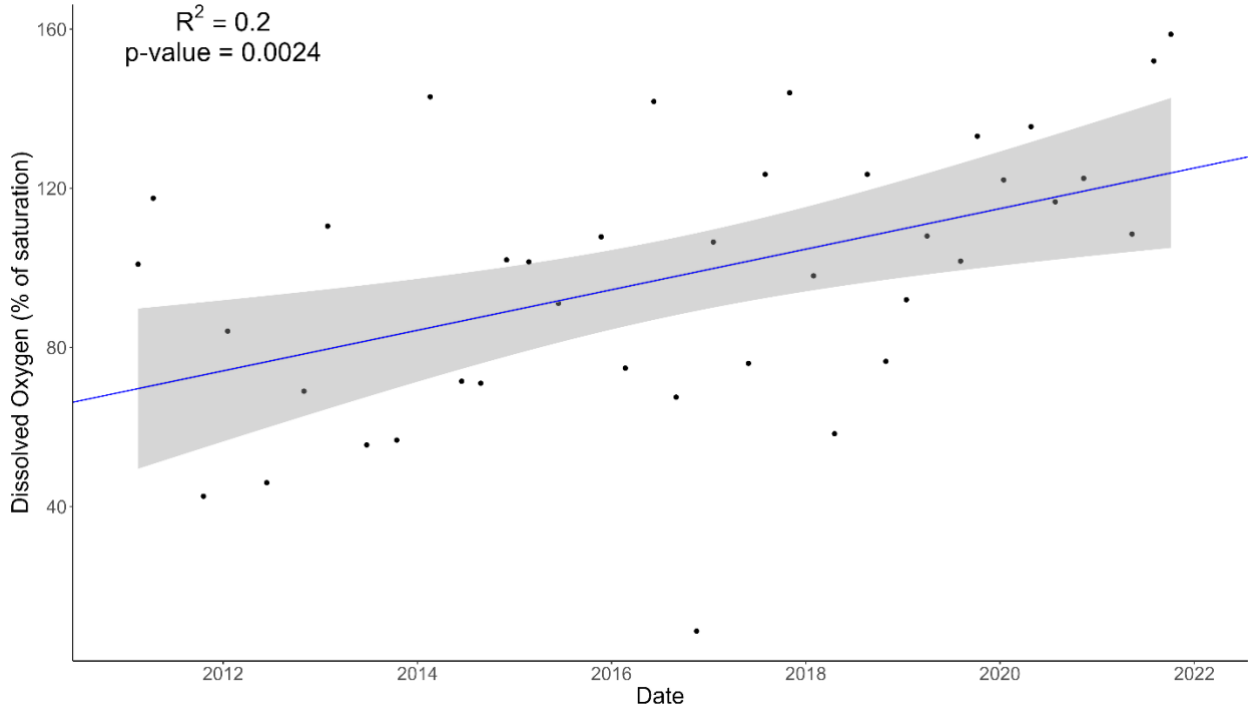
StationID: 16901-SURFACE

$R^2 = 0.08$
p-value = 0.0432



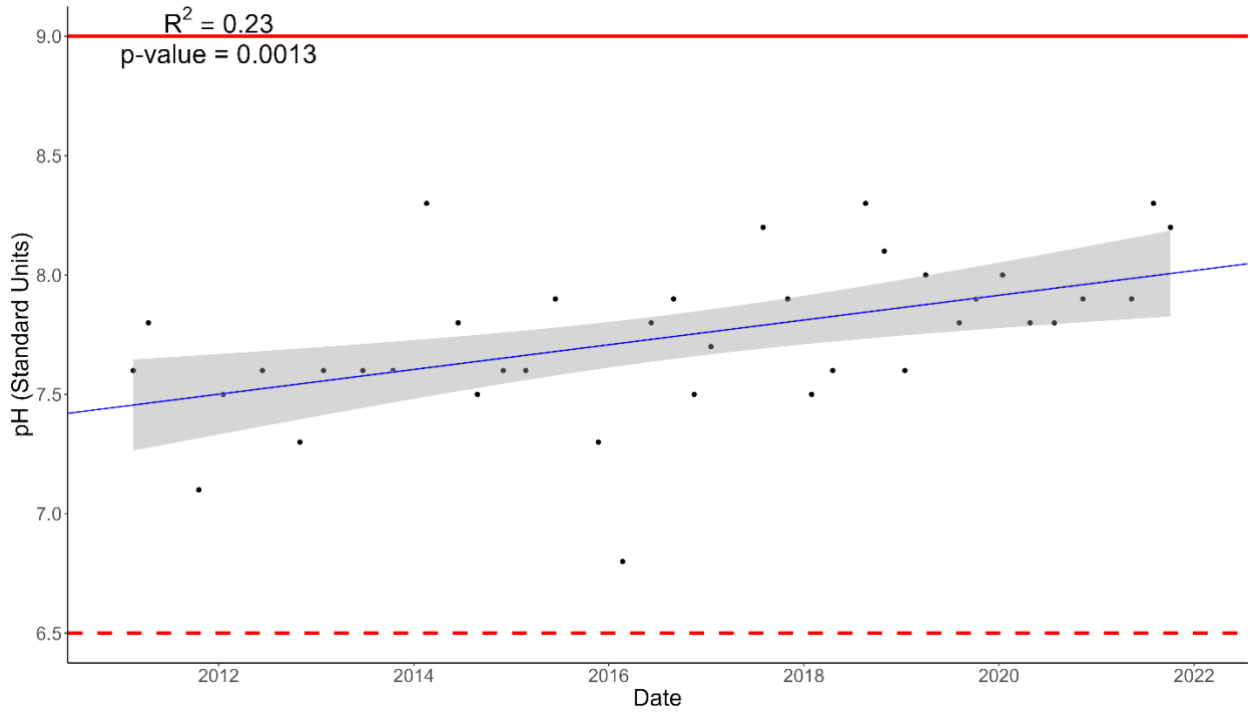
StationID: 16901-SURFACE

$R^2 = 0.2$
p-value = 0.0024

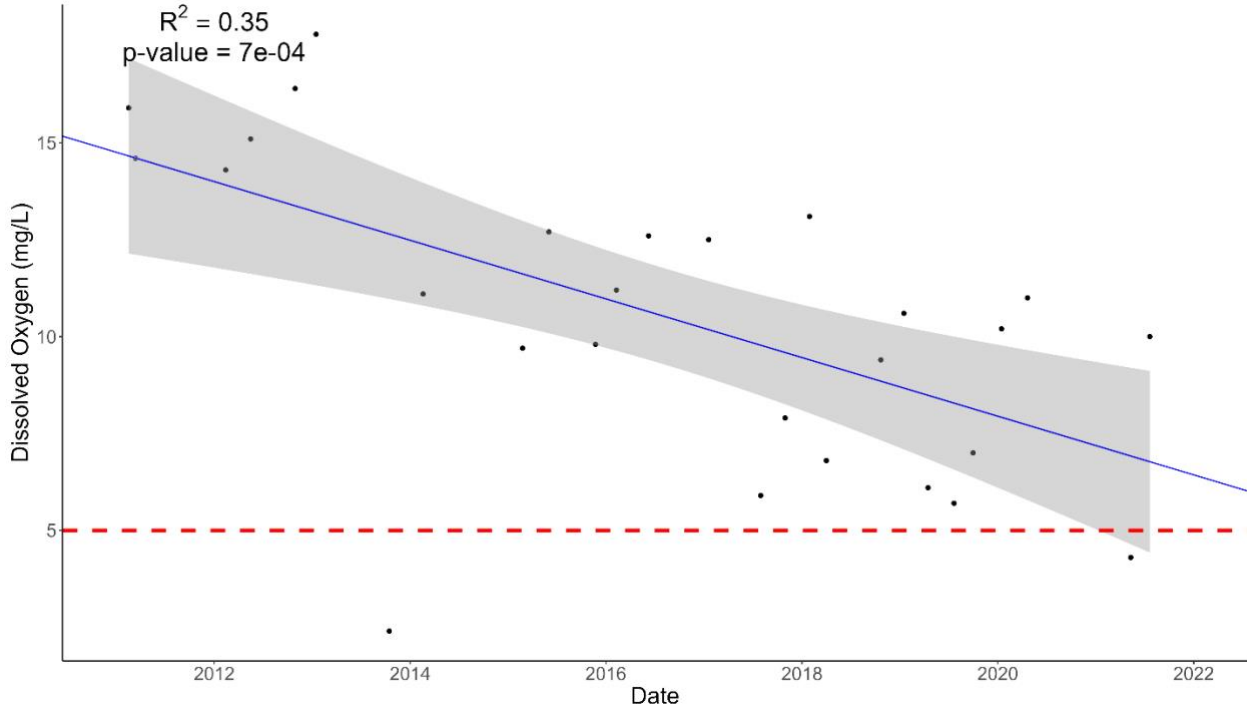


StationID: 16901-SURFACE

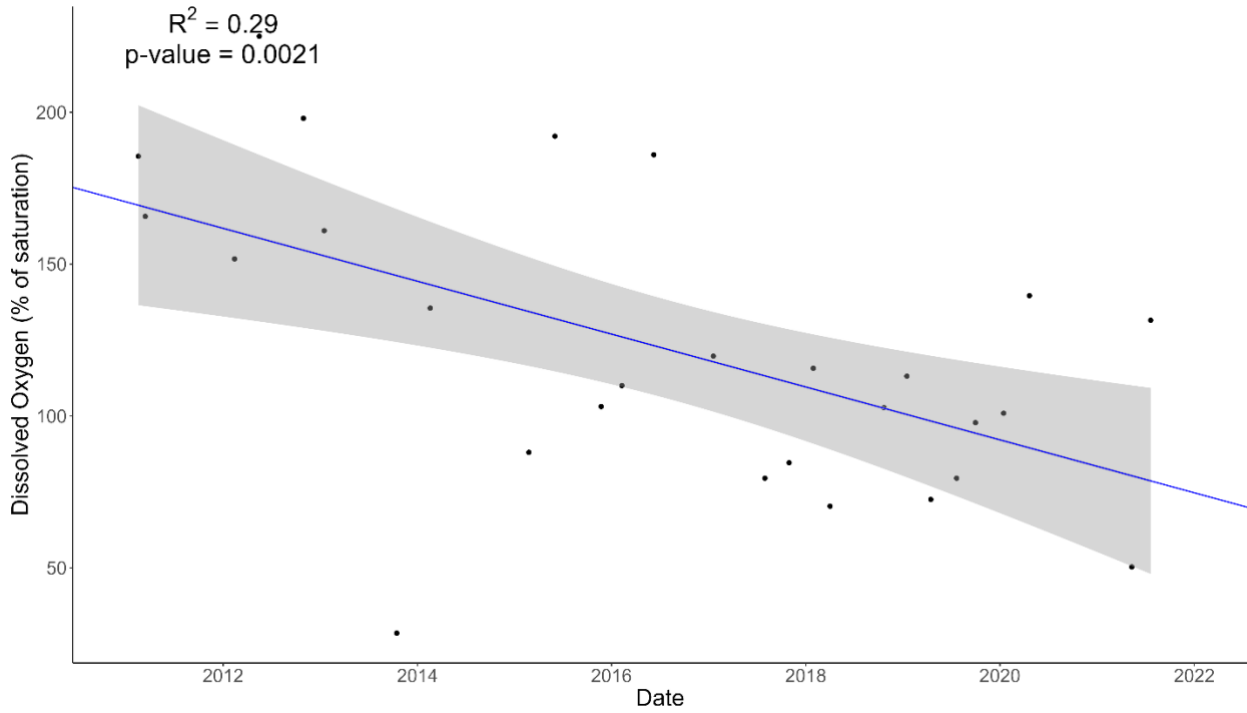
$R^2 = 0.23$
p-value = 0.0013



StationID: 18338-SURFACE

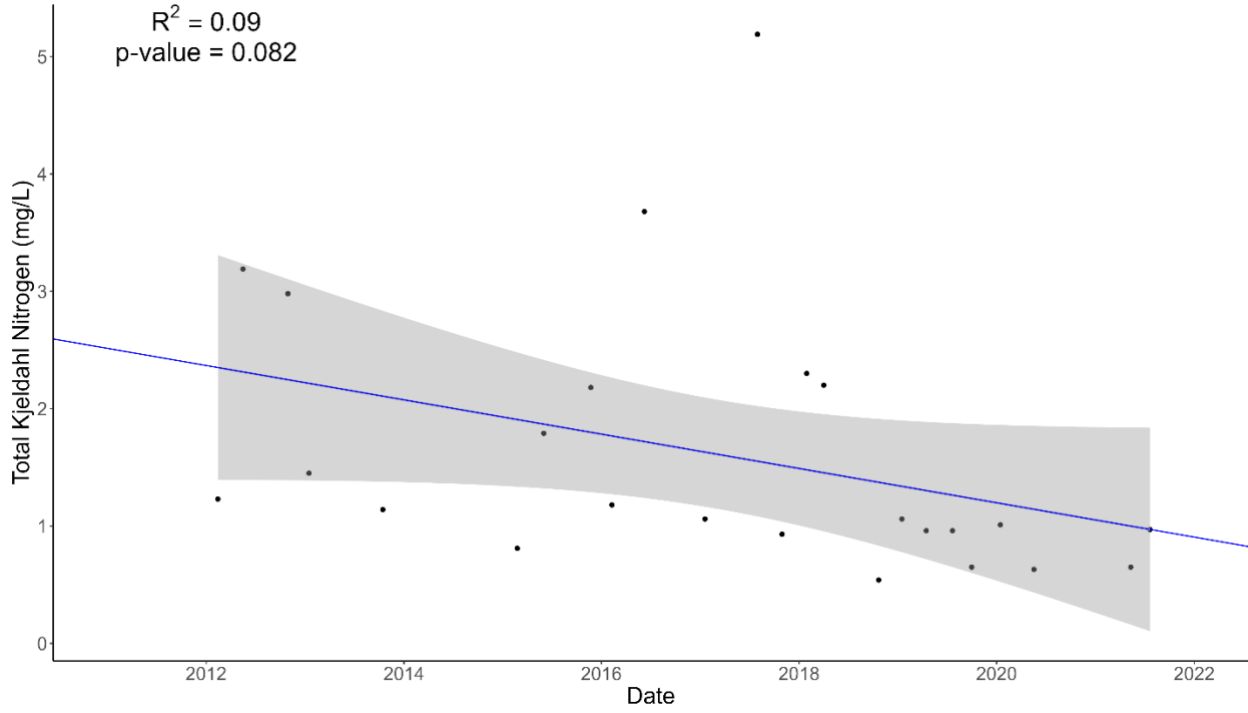


StationID: 18338-SURFACE



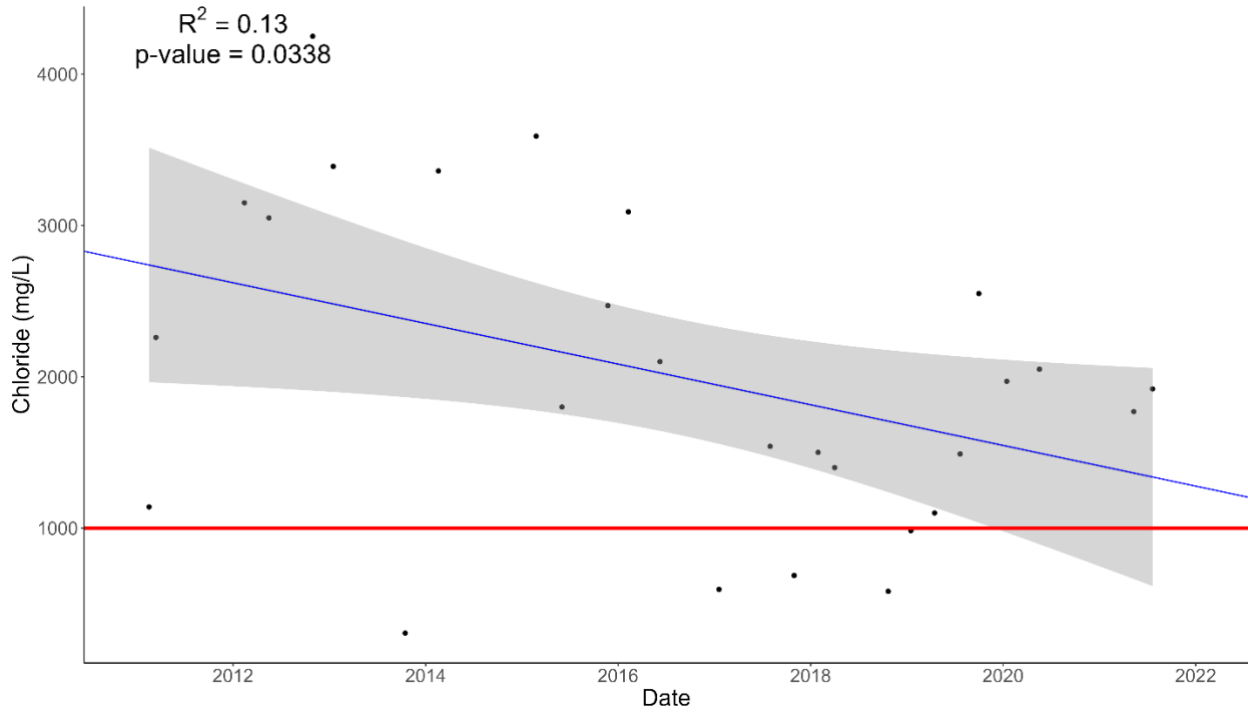
StationID: 18338-SURFACE

$R^2 = 0.09$
p-value = 0.082



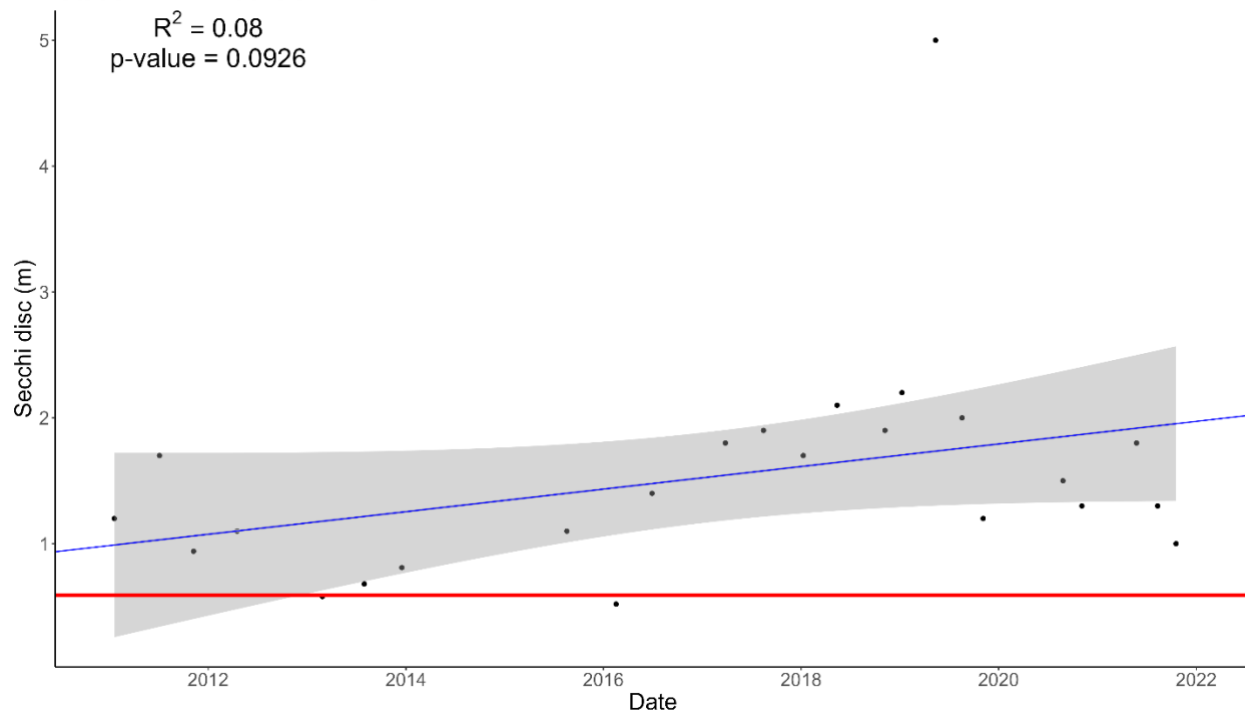
StationID: 18338-SURFACE

$R^2 = 0.13$
p-value = 0.0338

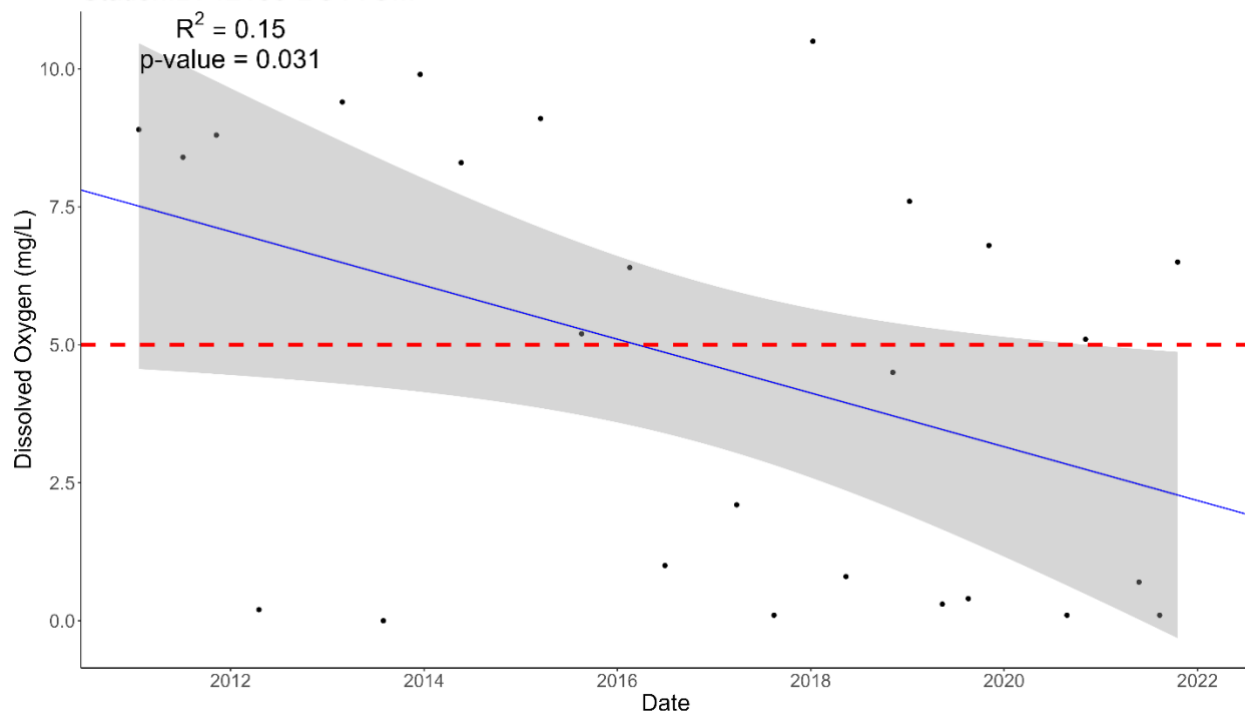


1426A – Oak Creek Reservoir

StationID: 12180-SURFACE

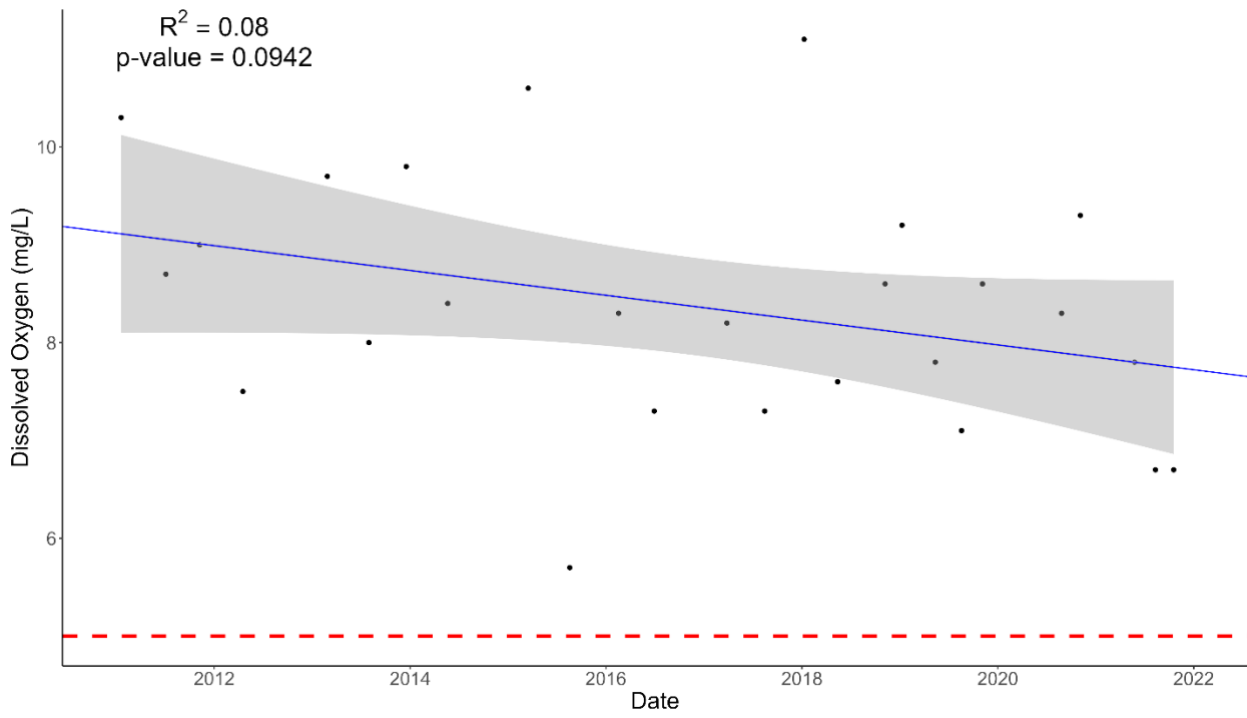


StationID: 12180-BOTTOM



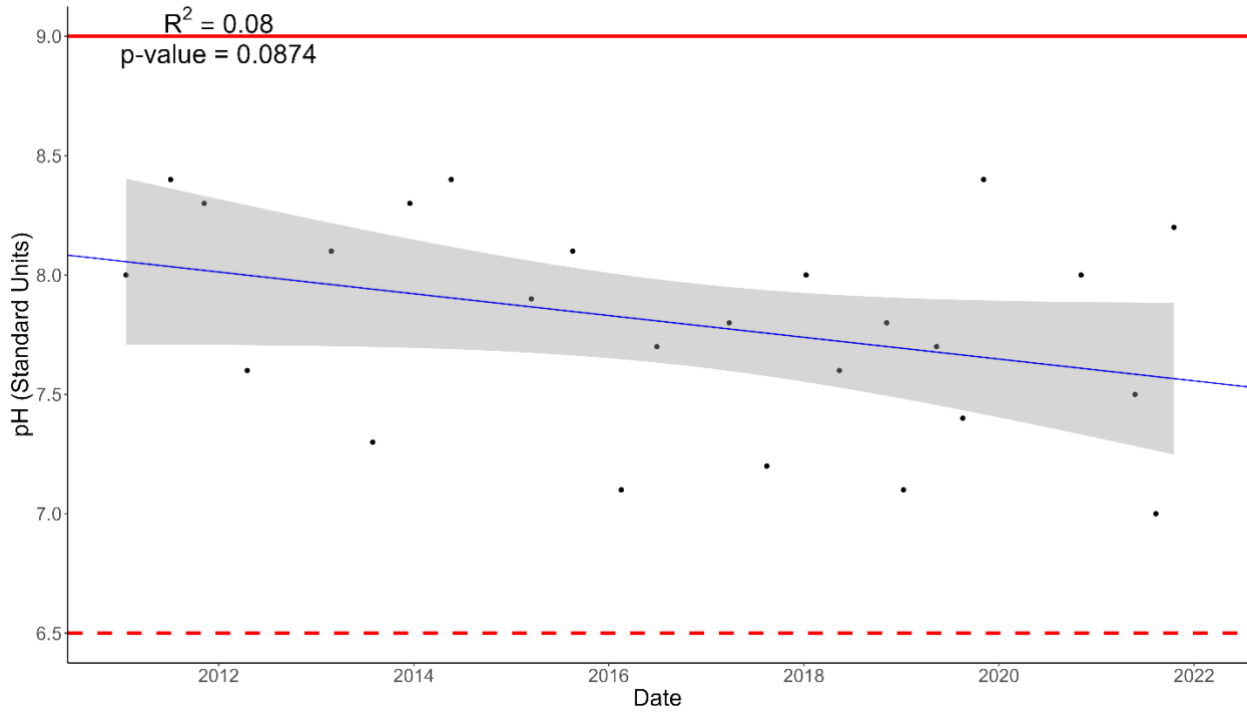
StationID: 12180-SURFACE

$R^2 = 0.08$
p-value = 0.0942



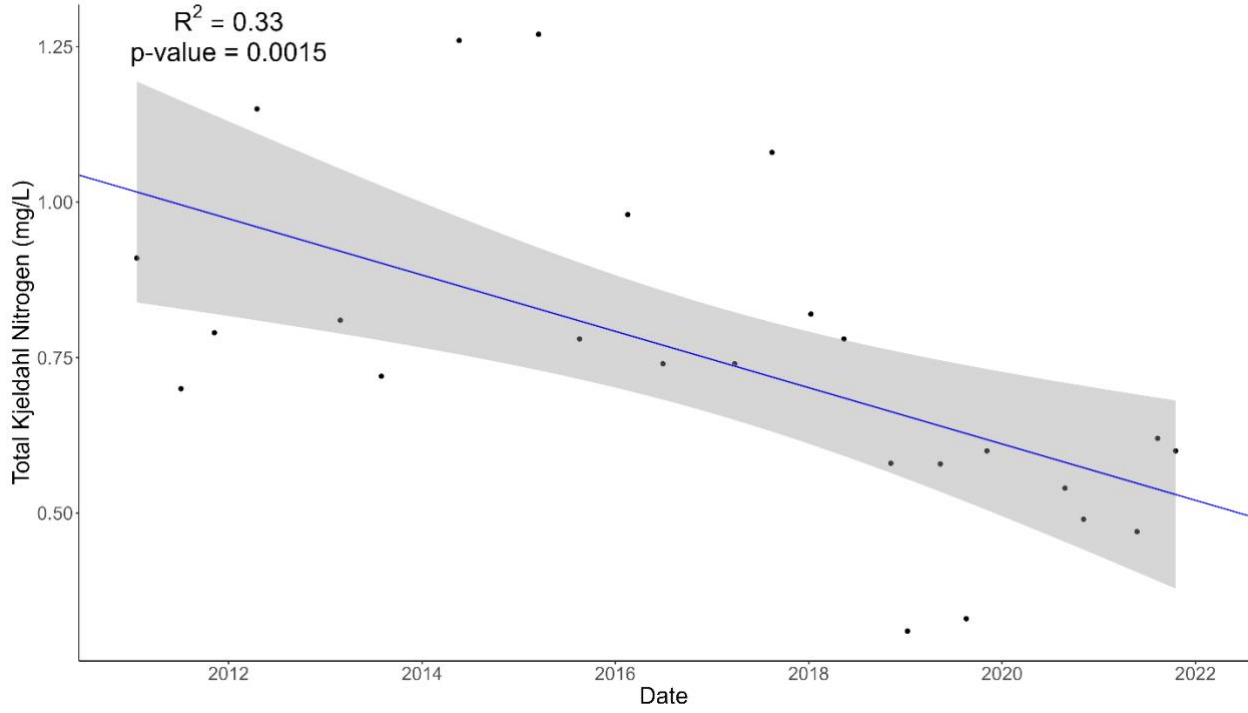
StationID: 12180-BOTTOM

$R^2 = 0.08$
p-value = 0.0874



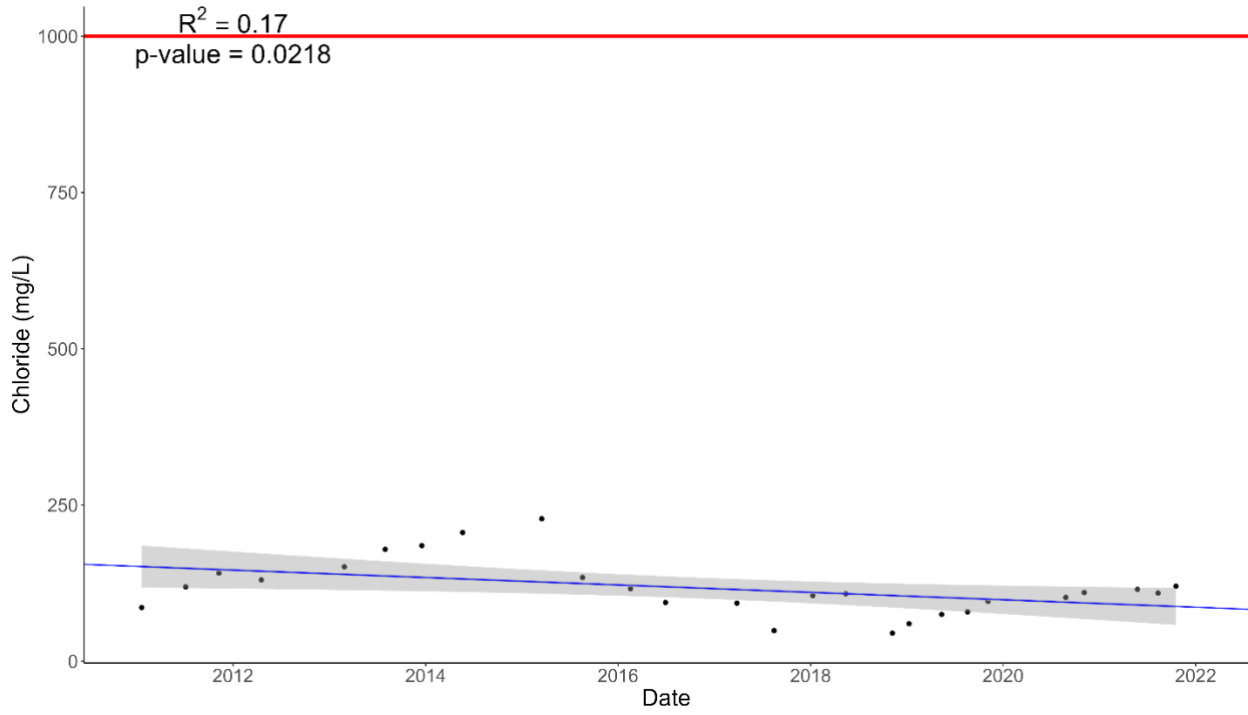
StationID: 12180-SURFACE

$R^2 = 0.33$
p-value = 0.0015

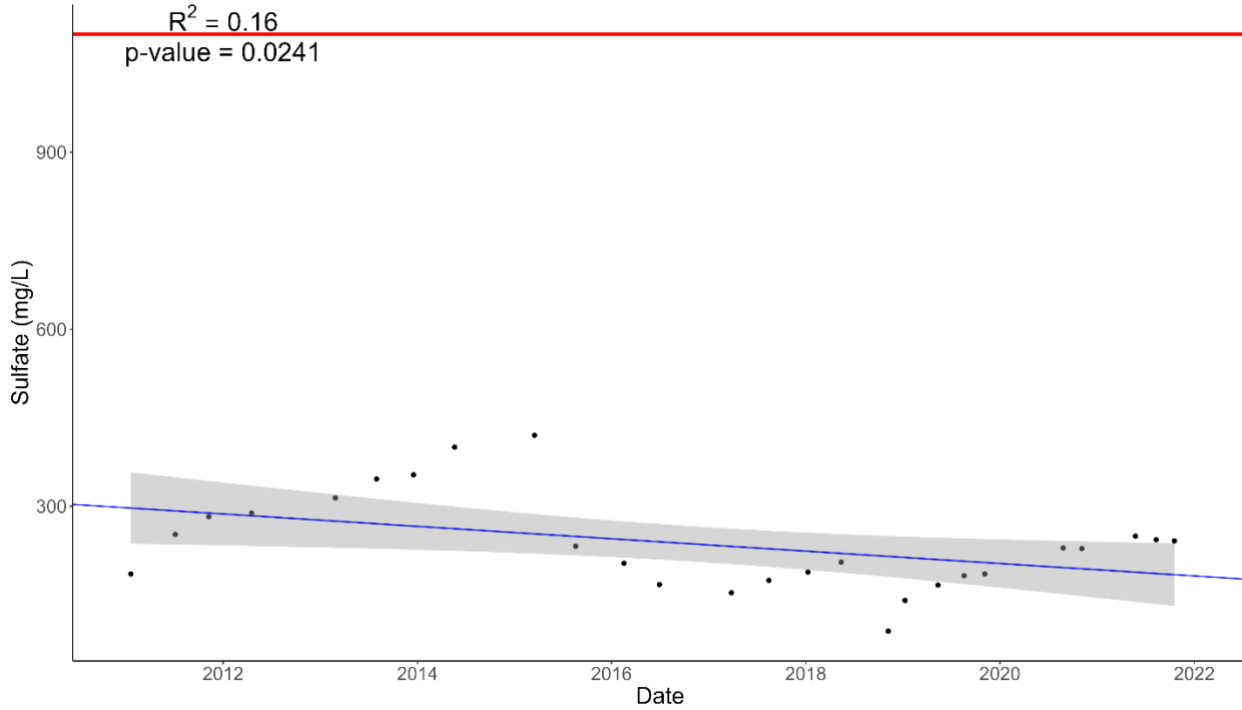


StationID: 12180-SURFACE

$R^2 = 0.17$
p-value = 0.0218



StationID: 12180-SURFACE

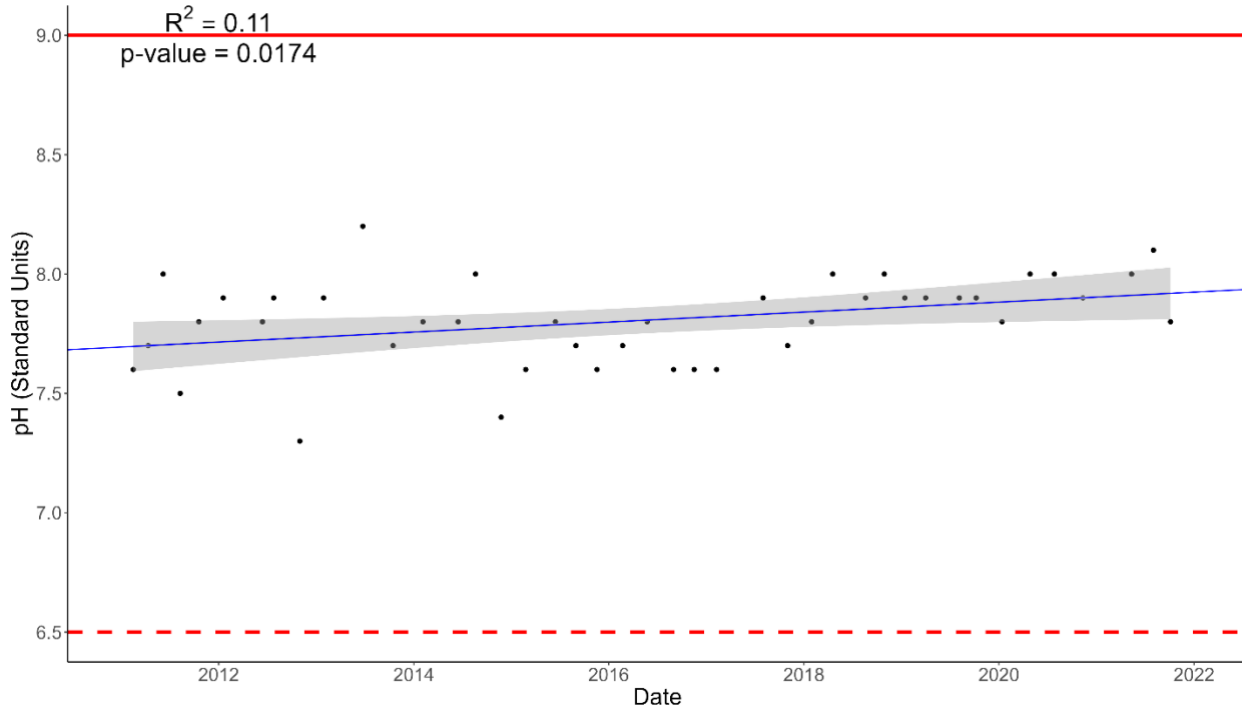


1426B – Elm Creek

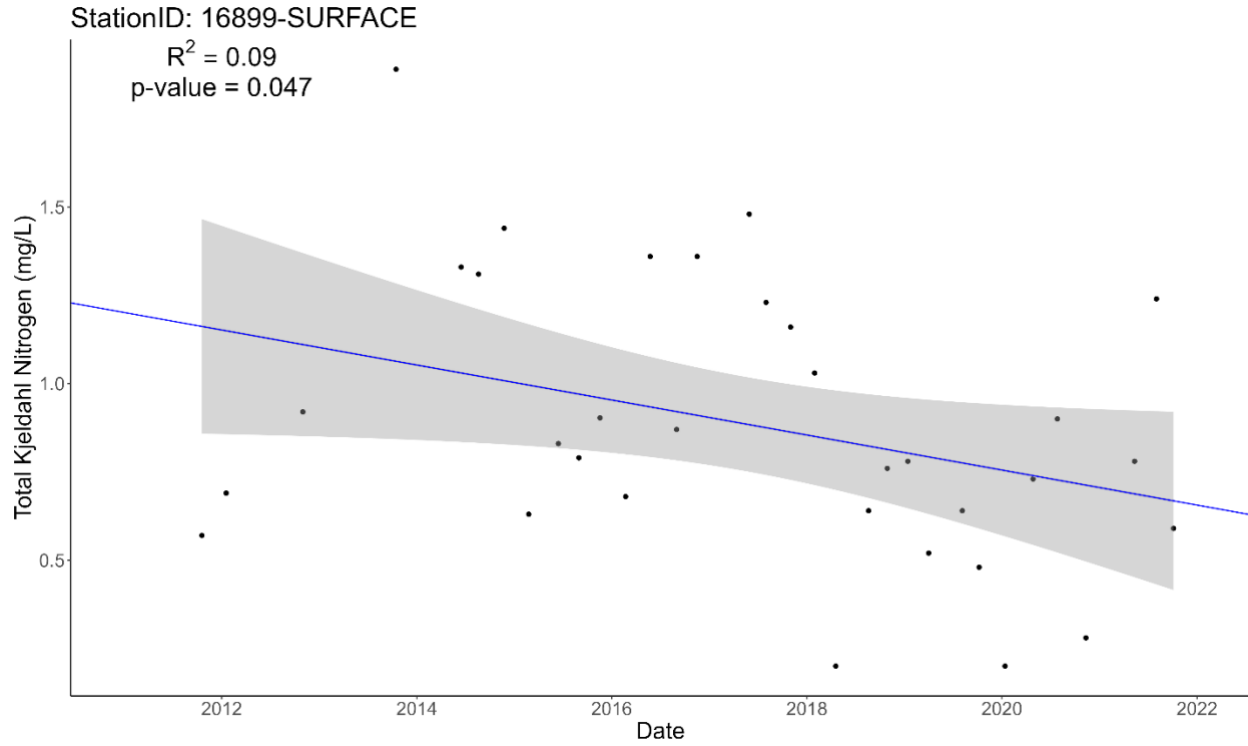
No significant trends.

1426C – Bluff Creek

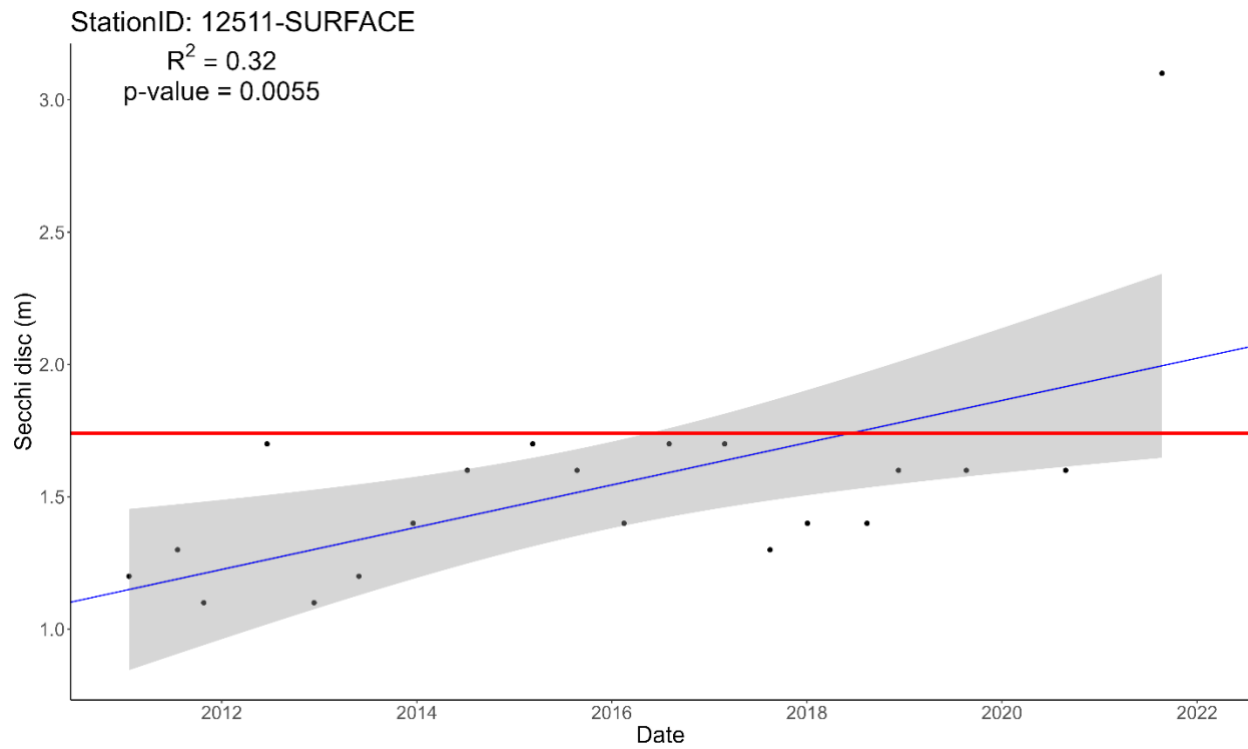
StationID: 17474-SURFACE



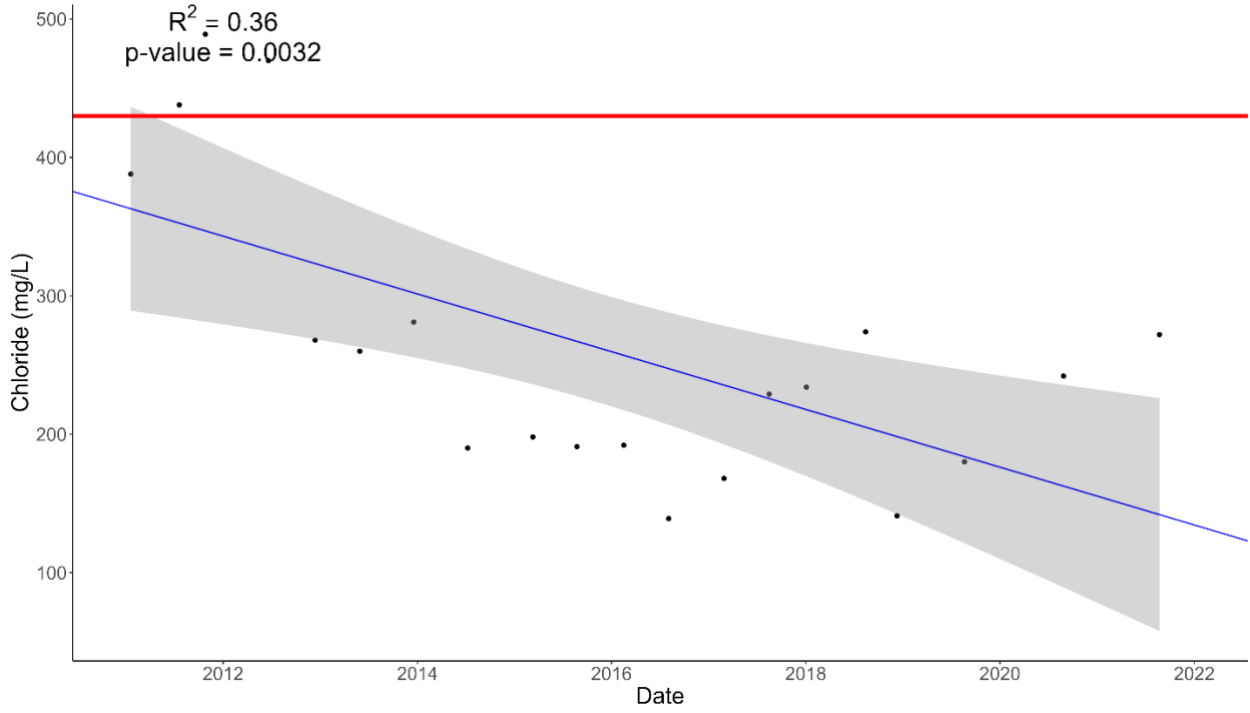
1426D – Coyote Creek



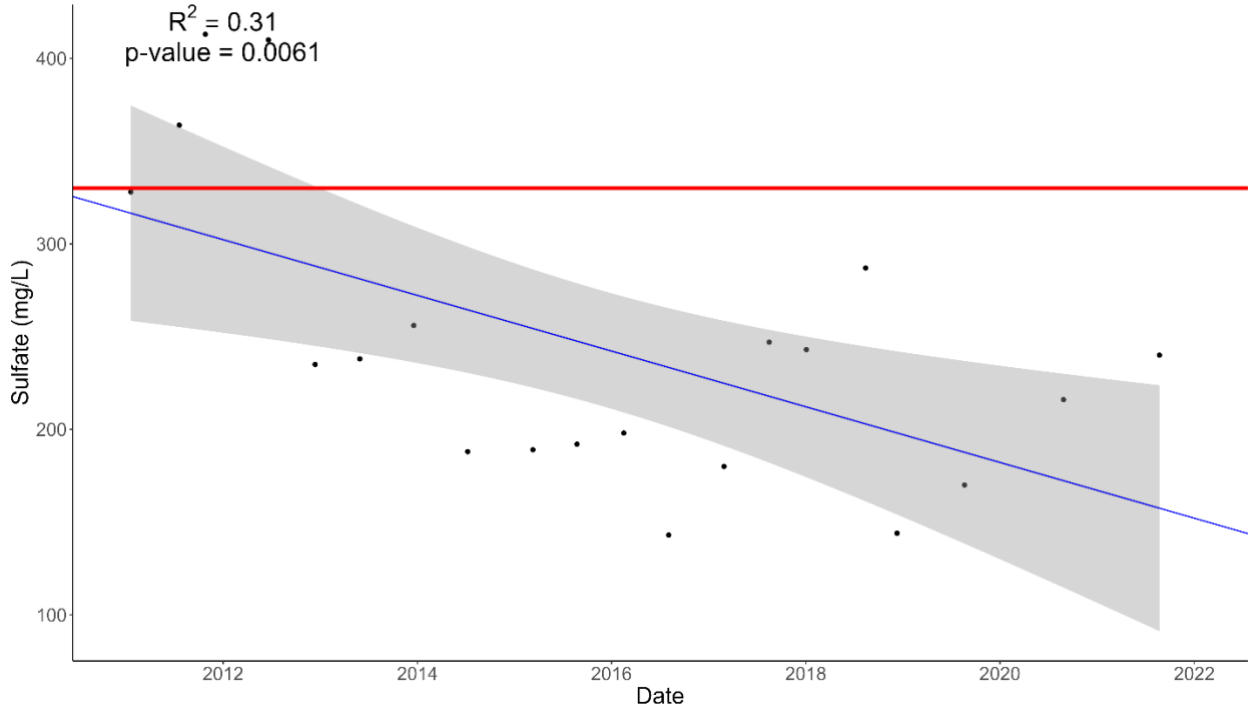
1433 – O.H. Ivie Reservoir



StationID: 12511-SURFACE

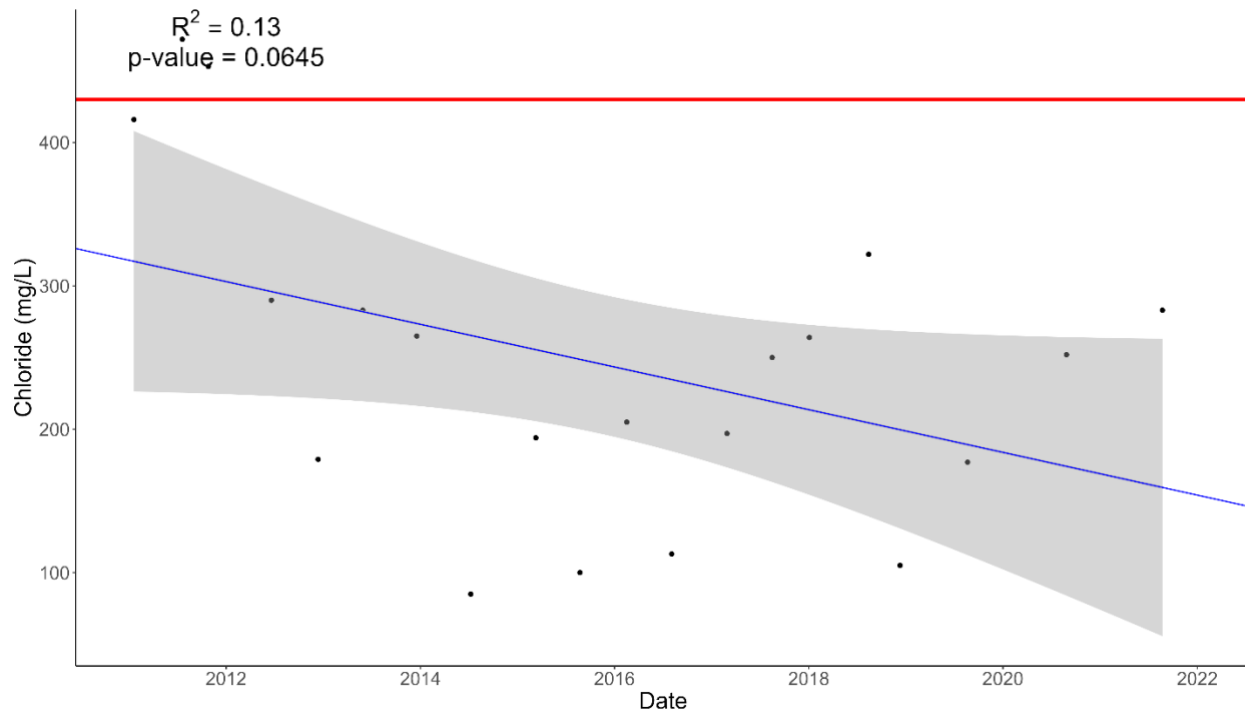


StationID: 12511-SURFACE



StationID: 12513-SURFACE

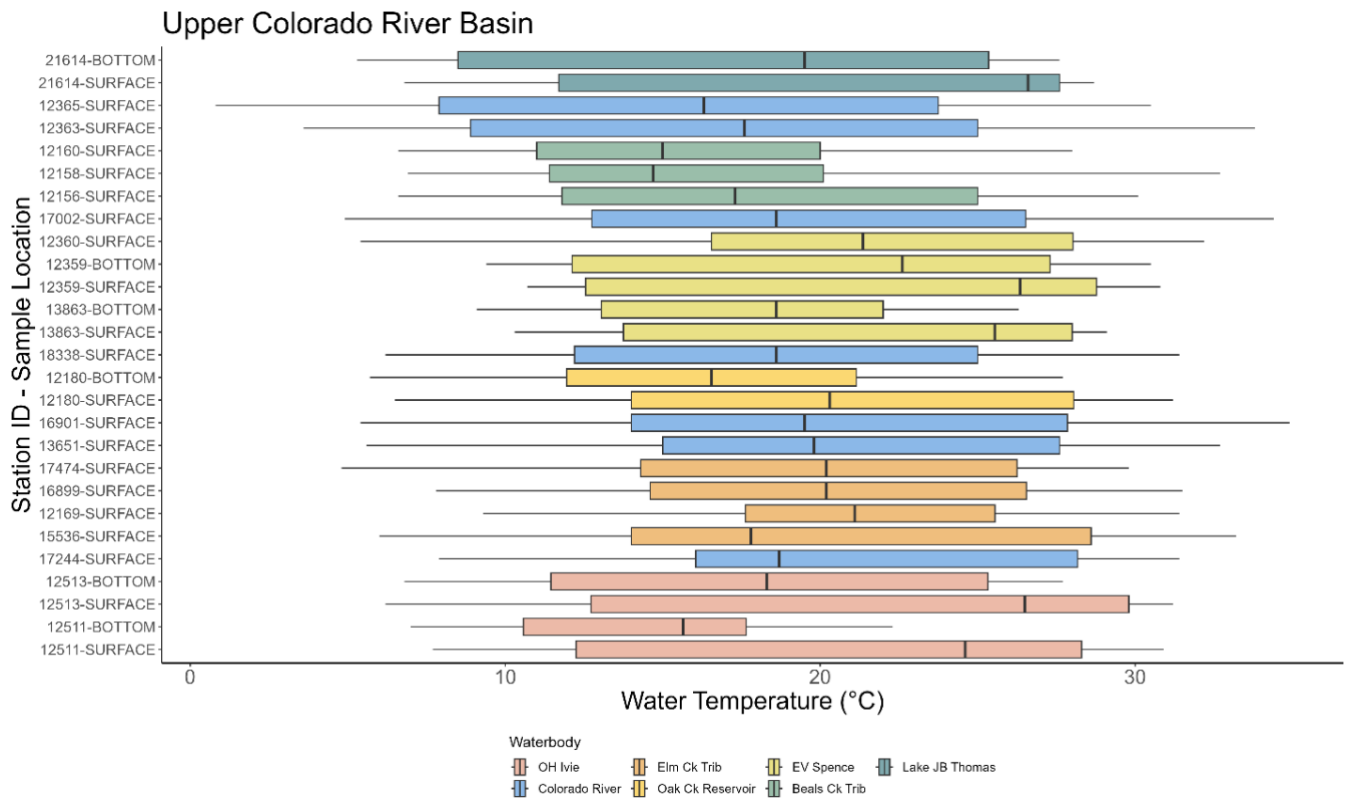
$R^2 = 0.13$
p-value = 0.0645



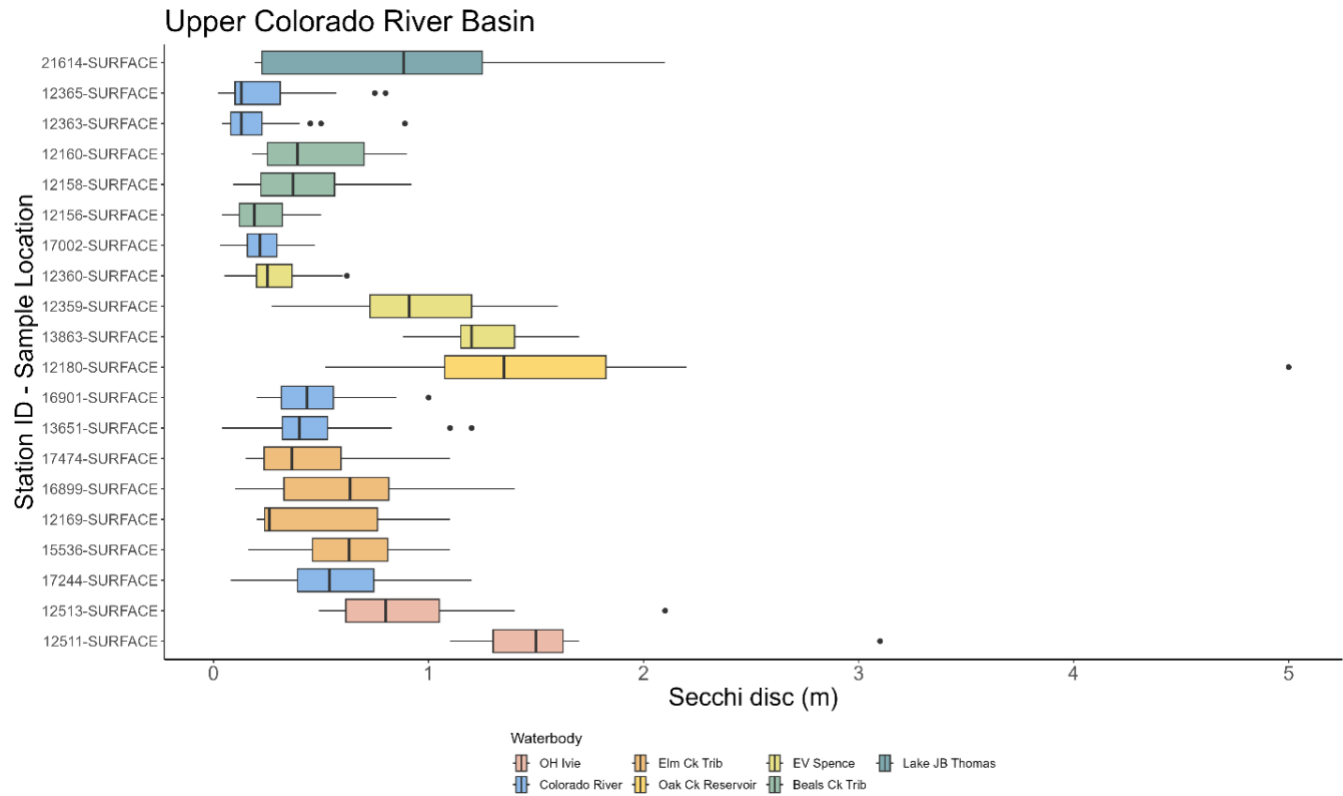
Appendix X1

Spatial comparison of parameters collected within the Upper Colorado River Basin. Boxplots of each parameter are presented first followed by a table of site-by-site comparisons using a Tukey-HSD analysis. Only statistically different station comparisons for each parameter are presented (p -value < 0.05).

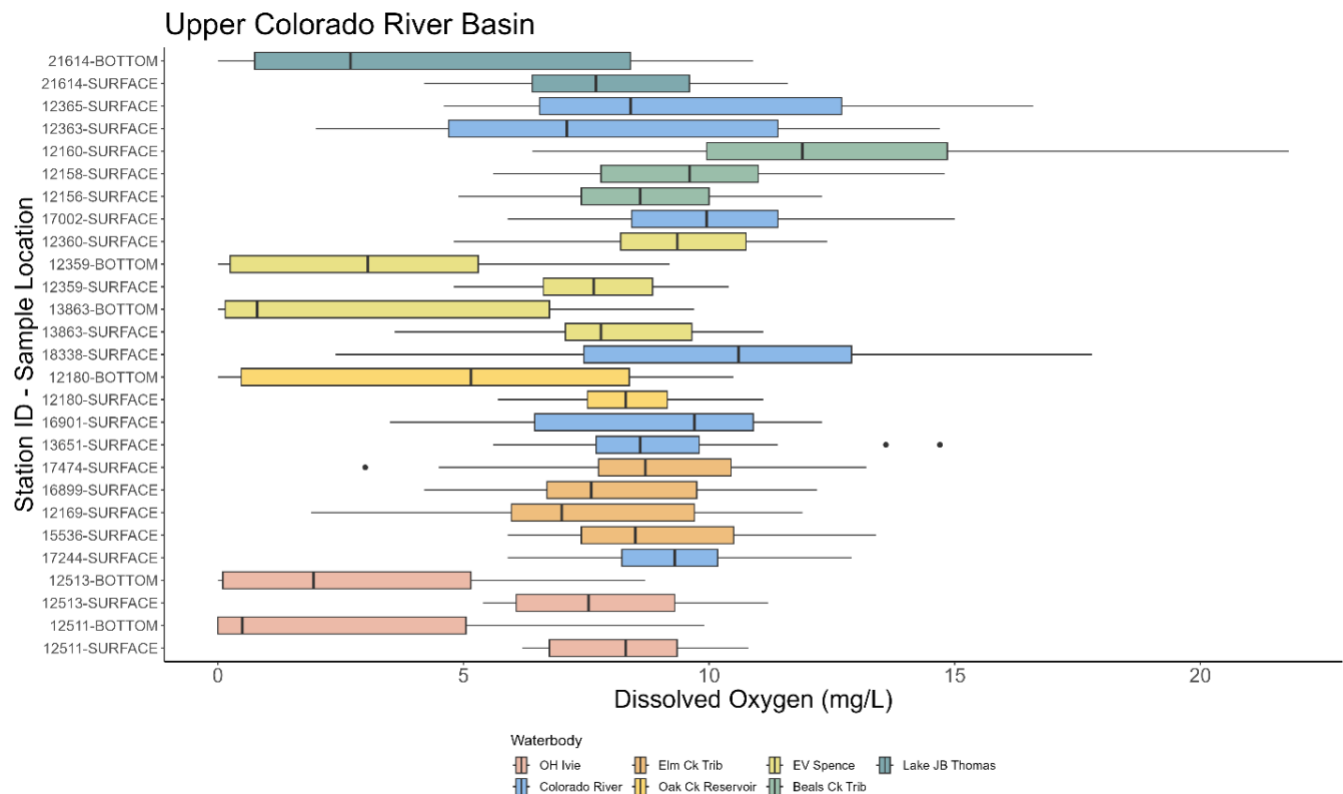
Water Temperature



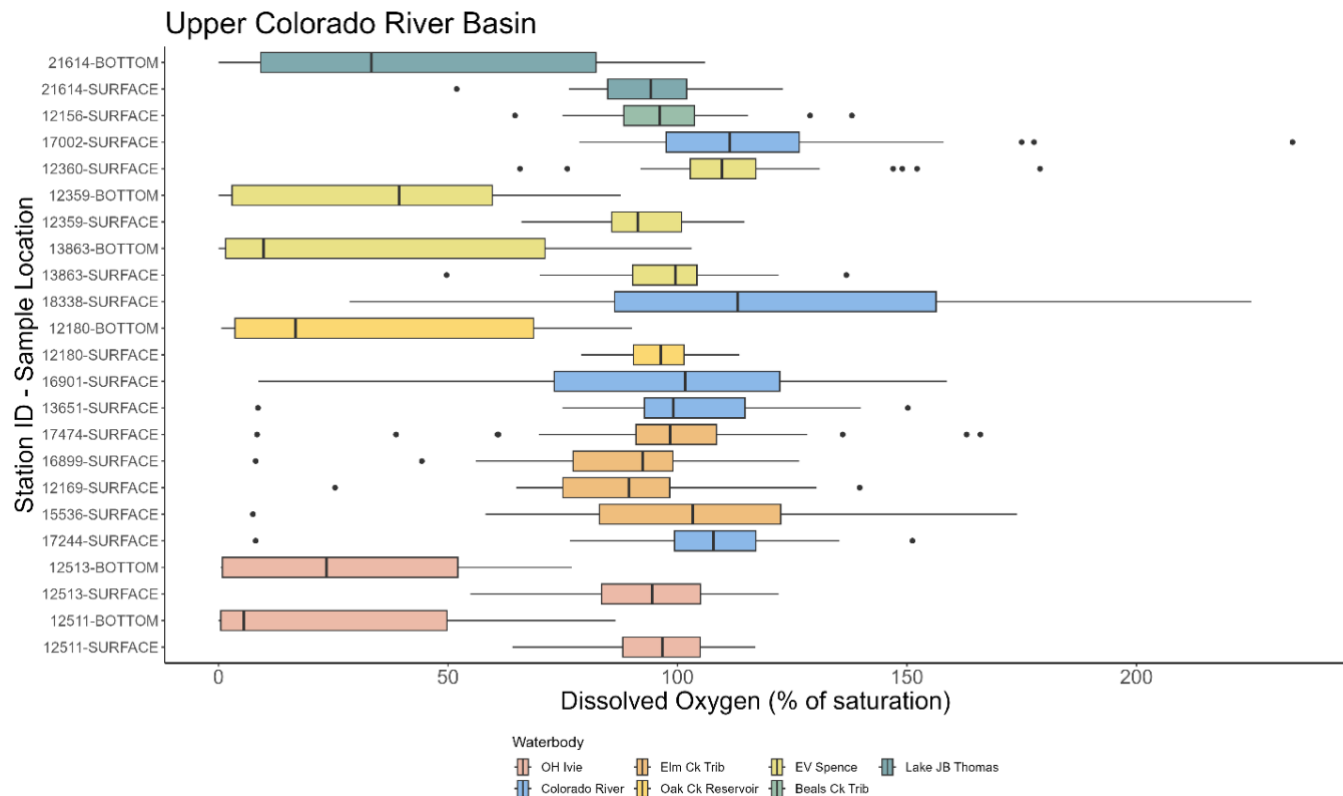
Secchi disc depth



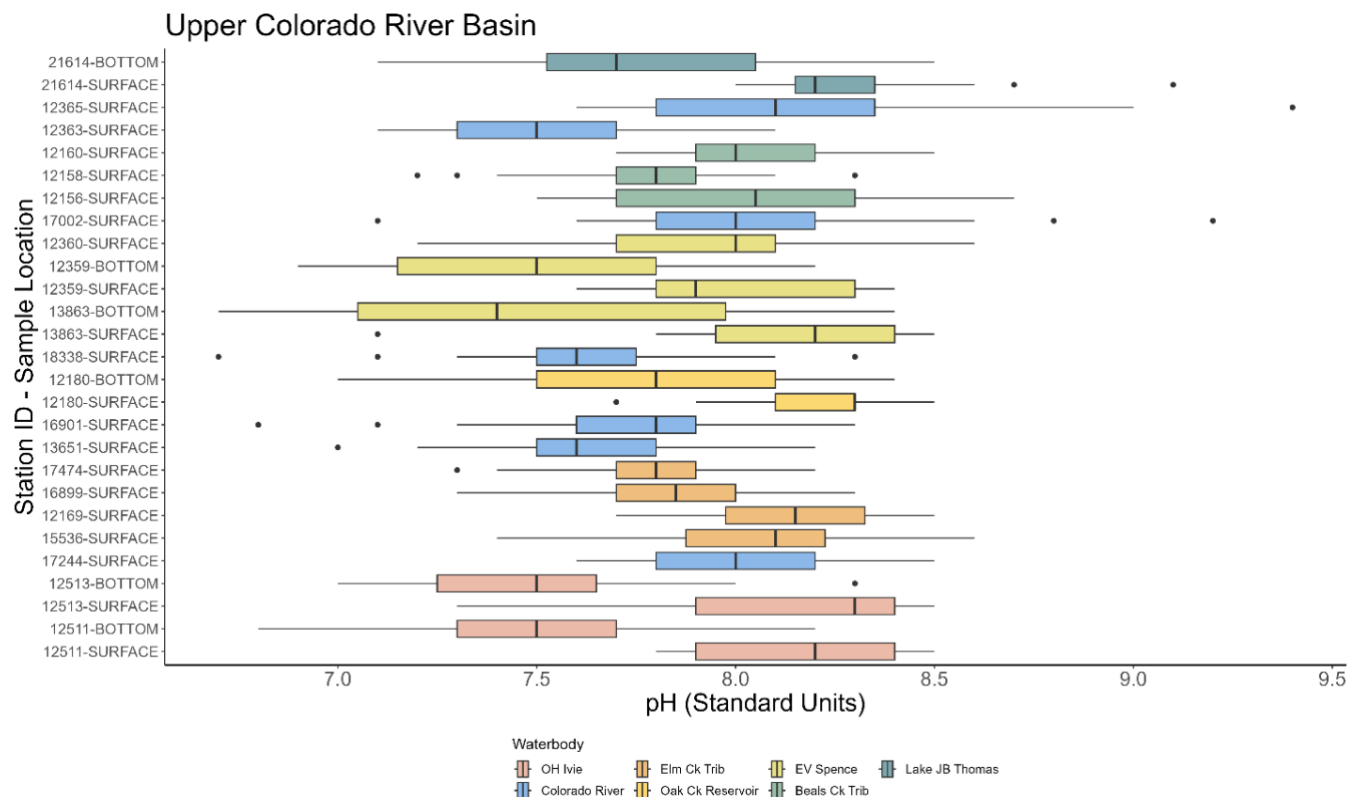
Dissolved Oxygen



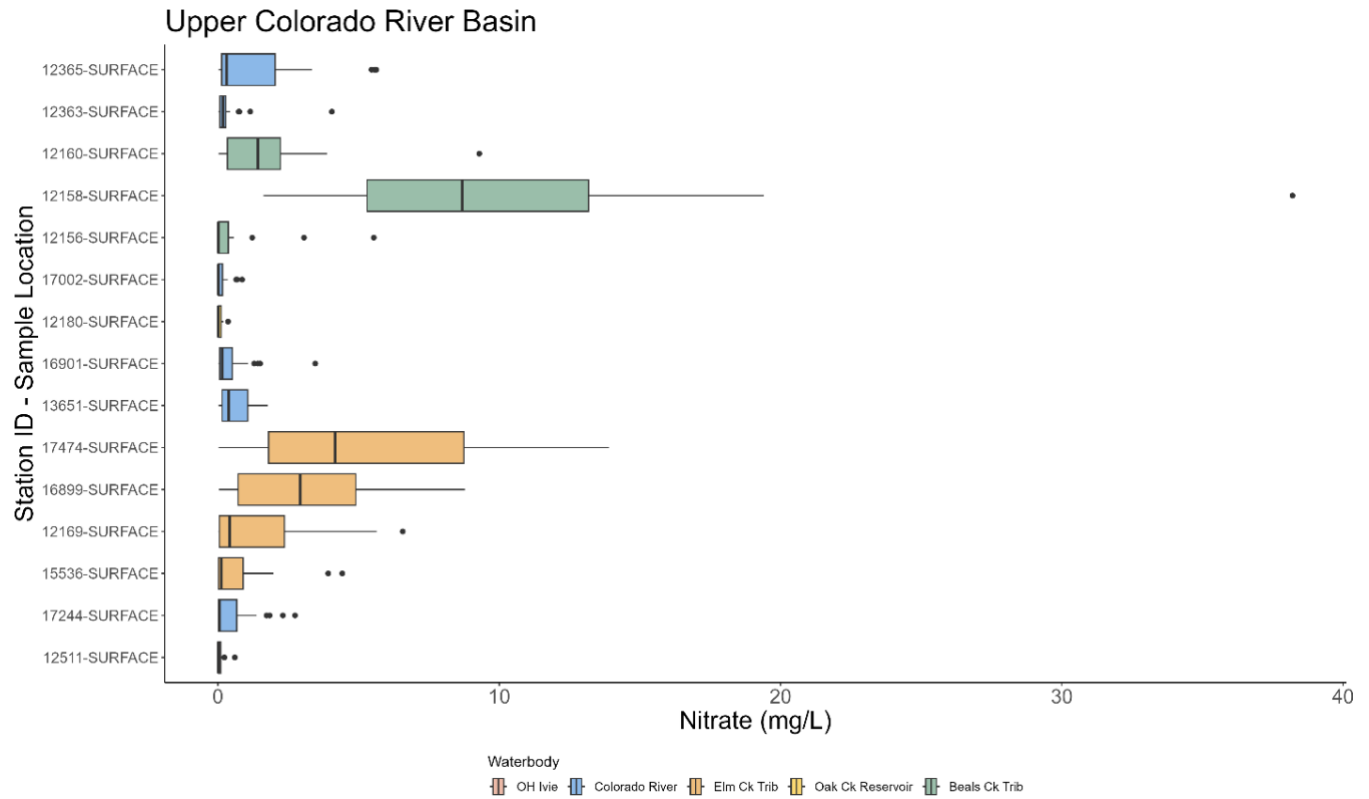
Dissolved Oxygen (% of saturation)



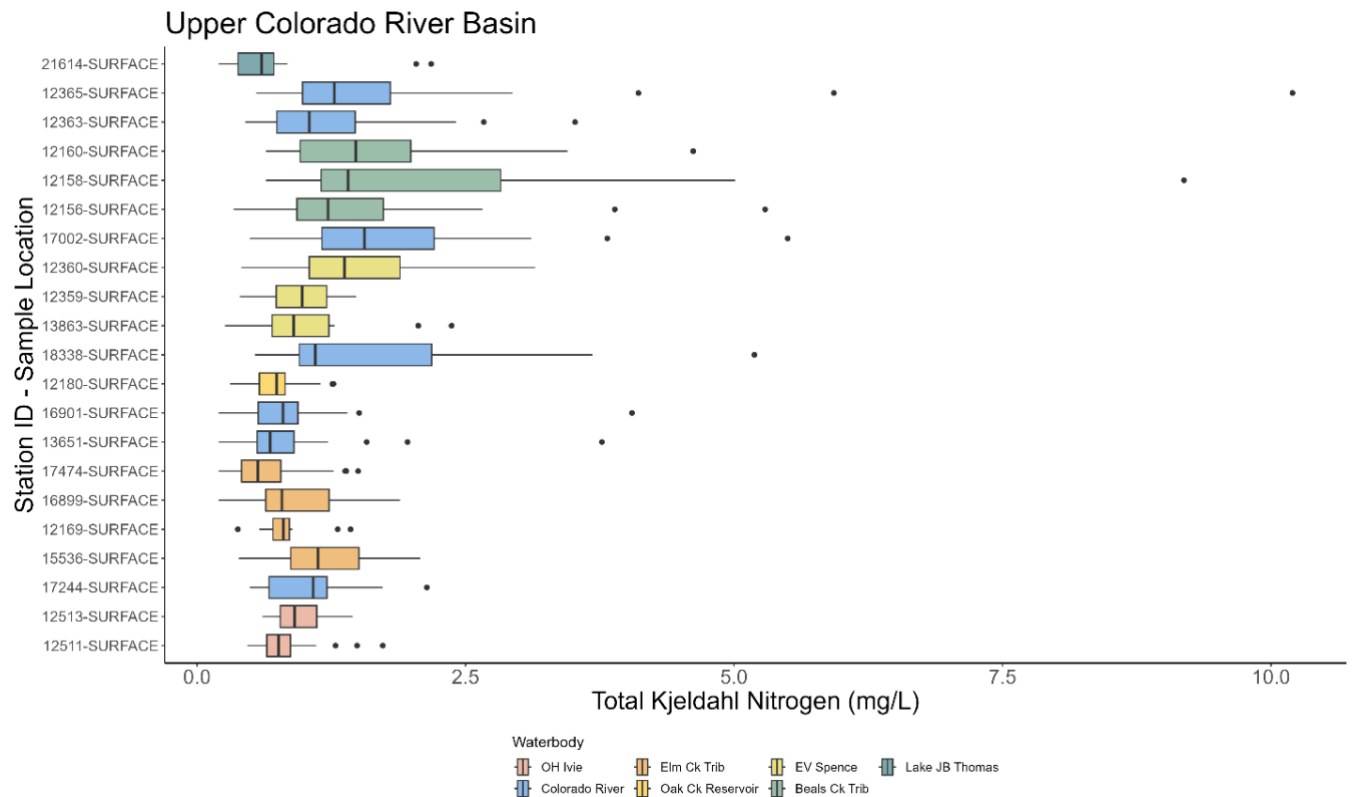
pH



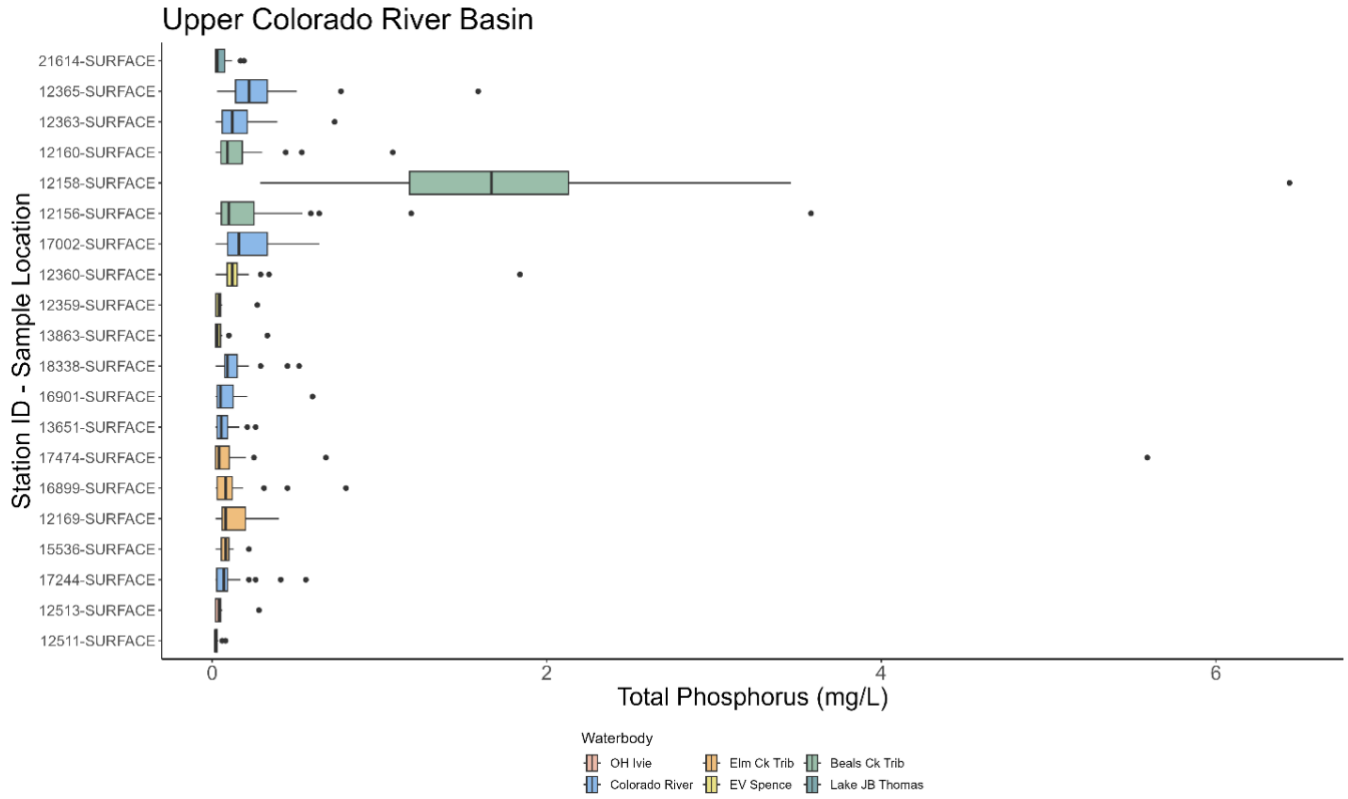
Nitrate



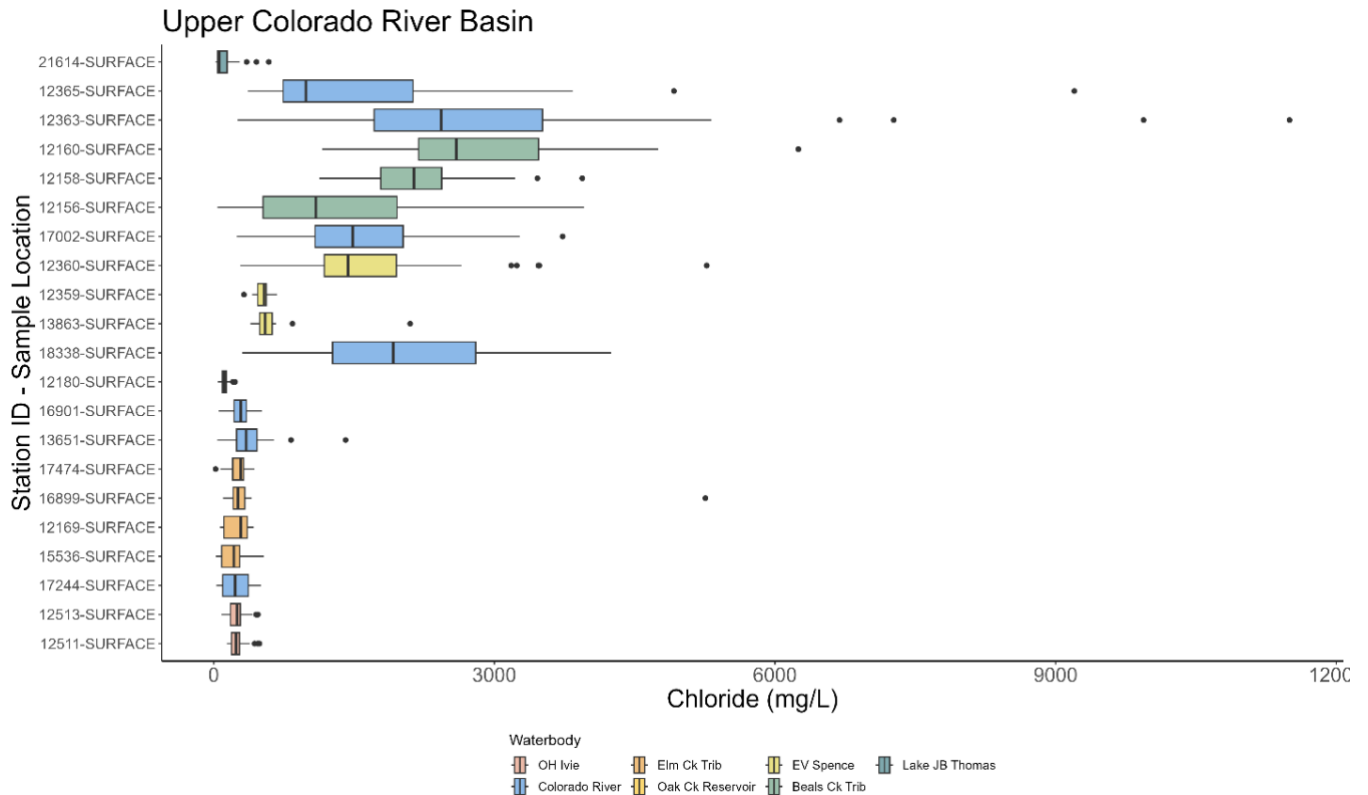
Total Kjeldahl Nitrogen



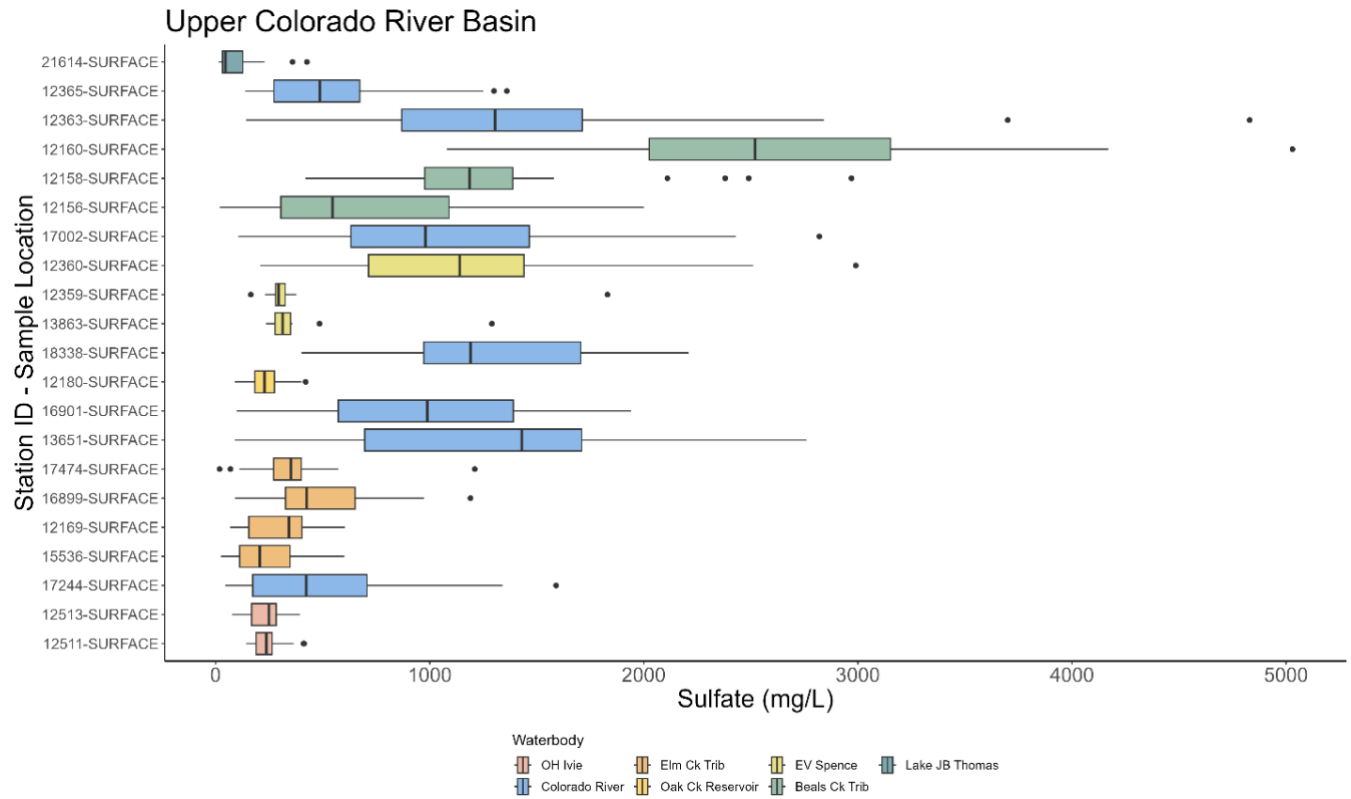
Total Phosphorus



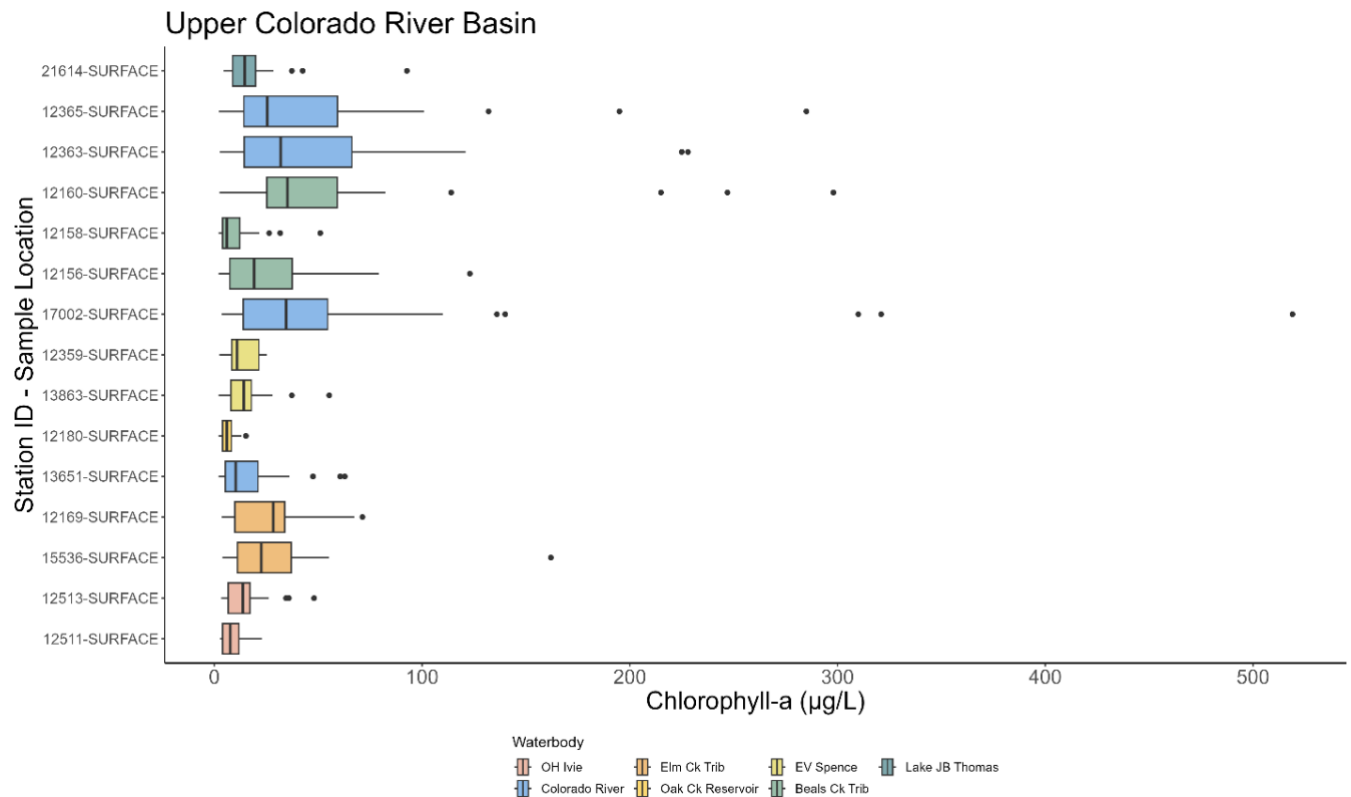
Chloride



Sulfate

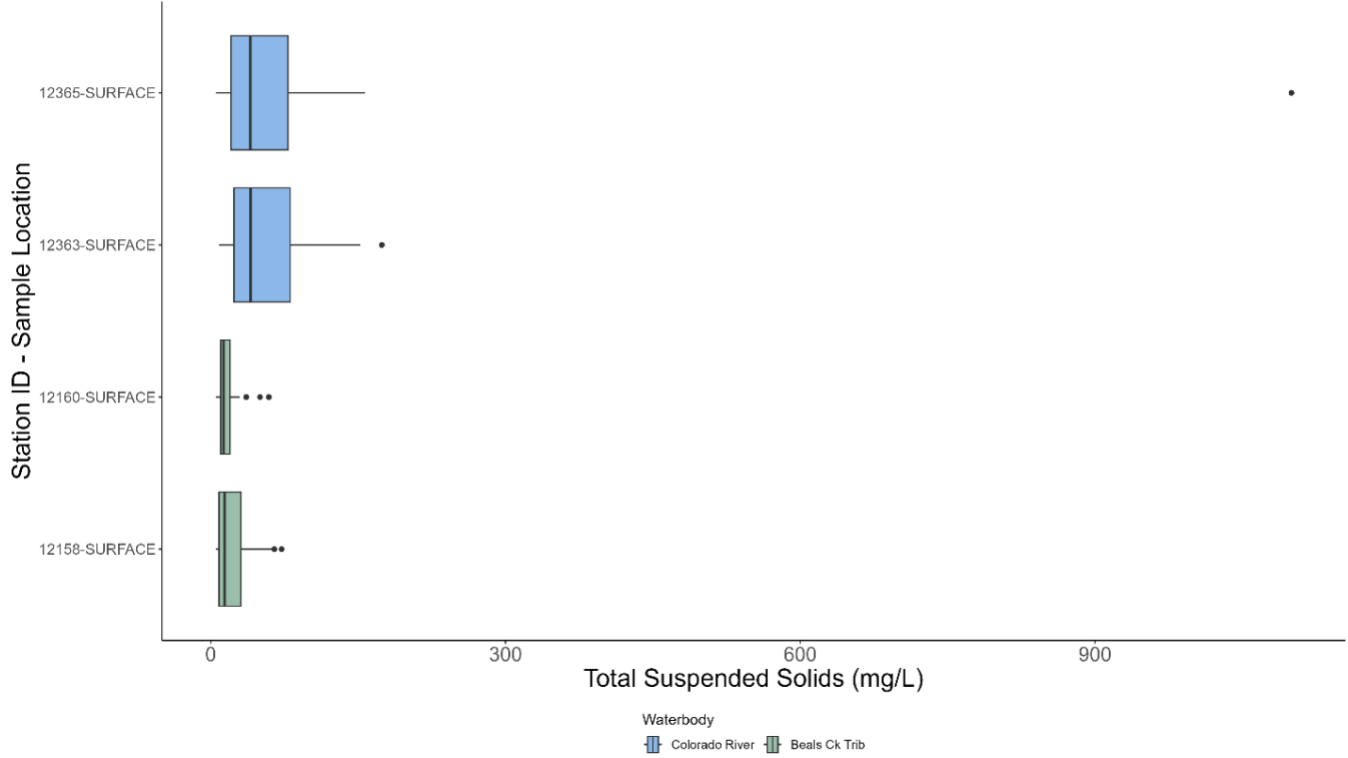


Chlorophyll a



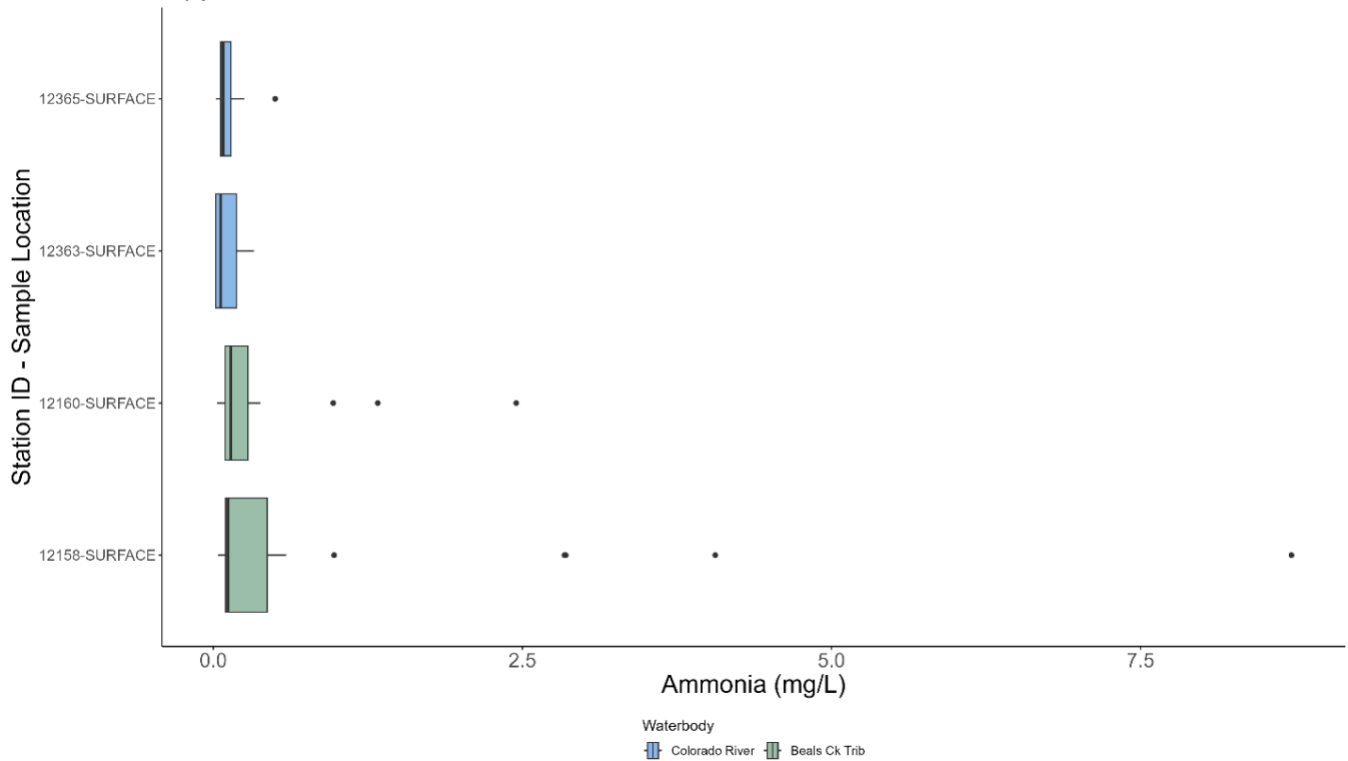
Total Suspended Solids

Upper Colorado River Basin

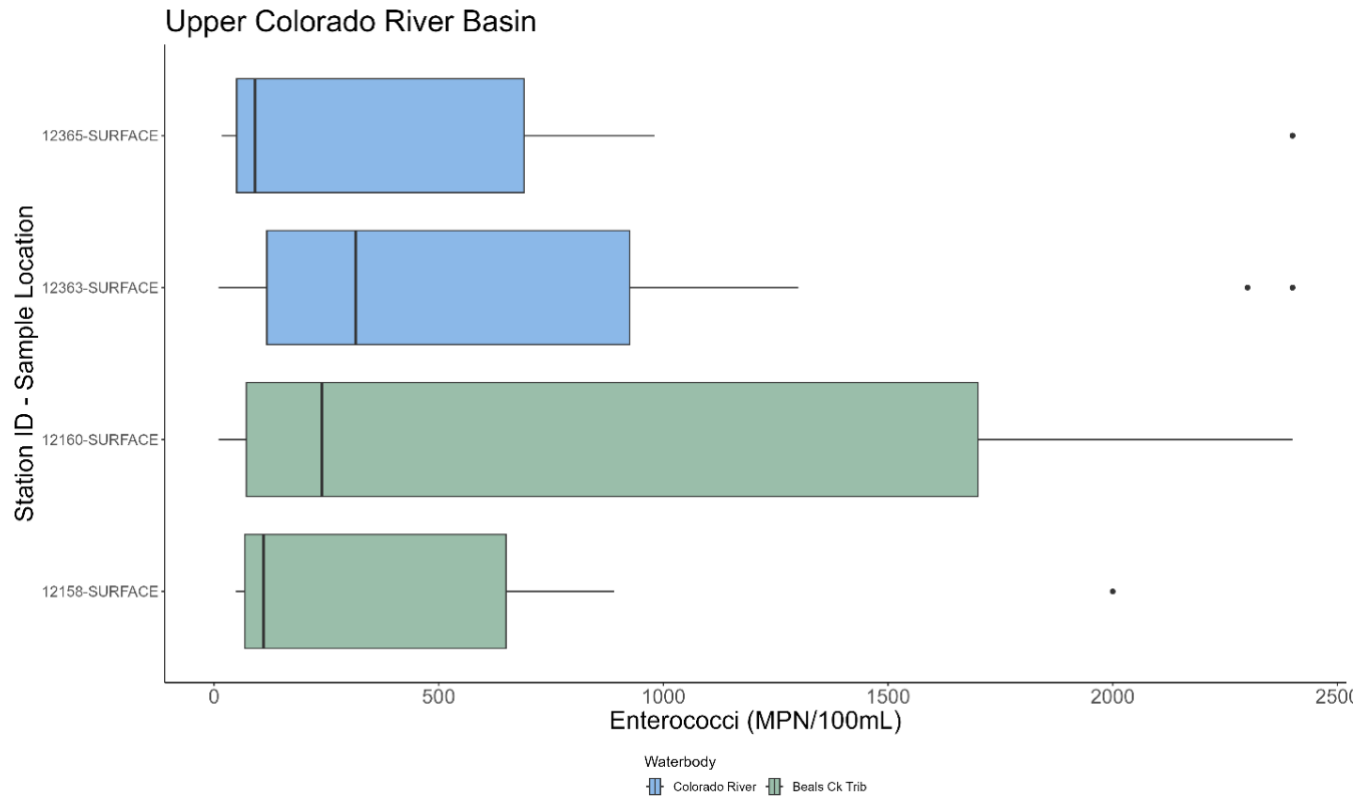


Ammonia

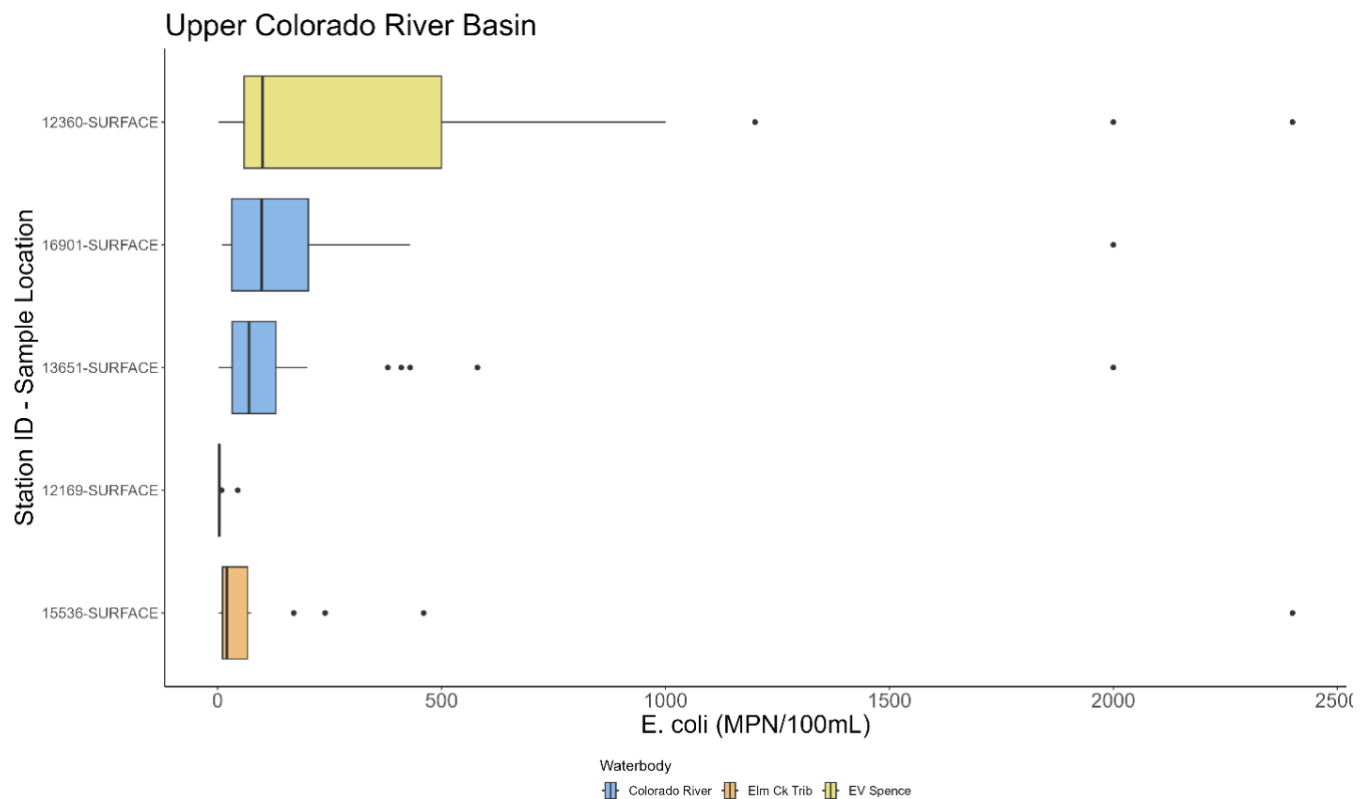
Upper Colorado River Basin



Enterococci



E. coli



Multiple Comparison Table

Multiple comparisons using Tukey-HSD after a significant ANOVA has been noted for the parameter. Sites that are being compared on a given row are mentioned in the Site Comparison column. The estimated difference between the sites for a given parameter is in the Difference column with the 95% confidence interval for the difference lying between the 95% Low and 95% High columns. As long as the 95% confidence interval does not contain zero, the sites should be statistically different (p-value < 0.05) for a given parameter.

Parameter Code	Parameter	WSHED	Site Comparison	Difference	95% Low Diff	95% High Diff	p-value
00078	Secchi disc (m)	UpperBasin	12180-SURFACE-12156-SURFACE	1.302	0.918	1.686	<0.0001
00078	Secchi disc (m)	UpperBasin	12359-SURFACE-12156-SURFACE	0.708	0.251	1.166	<0.0001
00078	Secchi disc (m)	UpperBasin	12511-SURFACE-12156-SURFACE	1.307	0.907	1.707	<0.0001
00078	Secchi disc (m)	UpperBasin	12513-SURFACE-12156-SURFACE	0.678	0.273	1.082	<0.0001
00078	Secchi disc (m)	UpperBasin	13863-SURFACE-12156-SURFACE	1.017	0.588	1.447	<0.0001
00078	Secchi disc (m)	UpperBasin	16899-SURFACE-12156-SURFACE	0.370	0.010	0.730	0.036
00078	Secchi disc (m)	UpperBasin	21614-SURFACE-12156-SURFACE	0.623	0.201	1.045	<0.0001
00078	Secchi disc (m)	UpperBasin	12180-SURFACE-12158-SURFACE	1.122	0.744	1.500	<0.0001
00078	Secchi disc (m)	UpperBasin	12359-SURFACE-12158-SURFACE	0.528	0.077	0.980	0.0058
00078	Secchi disc (m)	UpperBasin	12511-SURFACE-12158-SURFACE	1.127	0.733	1.521	<0.0001
00078	Secchi disc (m)	UpperBasin	12513-SURFACE-12158-SURFACE	0.497	0.099	0.896	0.0018
00078	Secchi disc (m)	UpperBasin	13863-SURFACE-12158-SURFACE	0.837	0.413	1.261	<0.0001
00078	Secchi disc (m)	UpperBasin	21614-SURFACE-12158-SURFACE	0.443	0.026	0.859	0.0235
00078	Secchi disc (m)	UpperBasin	12180-SURFACE-12160-SURFACE	1.060	0.676	1.444	<0.0001
00078	Secchi disc (m)	UpperBasin	12359-SURFACE-12160-SURFACE	0.466	0.009	0.923	0.0399
00078	Secchi disc (m)	UpperBasin	12511-SURFACE-12160-SURFACE	1.064	0.664	1.464	<0.0001
00078	Secchi disc (m)	UpperBasin	12513-SURFACE-12160-SURFACE	0.435	0.030	0.840	0.0203
00078	Secchi disc (m)	UpperBasin	13863-SURFACE-12160-SURFACE	0.775	0.345	1.204	<0.0001
00078	Secchi disc (m)	UpperBasin	12180-SURFACE-12169-SURFACE	1.065	0.636	1.493	<0.0001
00078	Secchi disc (m)	UpperBasin	12511-SURFACE-12169-SURFACE	1.069	0.626	1.512	<0.0001
00078	Secchi disc (m)	UpperBasin	13863-SURFACE-12169-SURFACE	0.779	0.310	1.249	<0.0001
00078	Secchi disc (m)	UpperBasin	12359-SURFACE-12180-SURFACE	-0.594	-1.022	-0.165	2e-04
00078	Secchi disc (m)	UpperBasin	12360-SURFACE-12180-SURFACE	-1.233	-1.586	-0.879	<0.0001
00078	Secchi disc (m)	UpperBasin	12363-SURFACE-12180-SURFACE	-1.337	-1.652	-1.023	<0.0001

00078	Secchi disc (m)	UpperBasin	12365-SURFACE-12180-SURFACE	-1.307	-1.626	-0.987	<0.0001
00078	Secchi disc (m)	UpperBasin	12513-SURFACE-12180-SURFACE	-0.625	-0.997	-0.252	<0.0001
00078	Secchi disc (m)	UpperBasin	13651-SURFACE-12180-SURFACE	-1.063	-1.397	-0.728	<0.0001
00078	Secchi disc (m)	UpperBasin	15536-SURFACE-12180-SURFACE	-0.902	-1.301	-0.503	<0.0001
00078	Secchi disc (m)	UpperBasin	16899-SURFACE-12180-SURFACE	-0.932	-1.255	-0.609	<0.0001
00078	Secchi disc (m)	UpperBasin	16901-SURFACE-12180-SURFACE	-1.054	-1.412	-0.696	<0.0001
00078	Secchi disc (m)	UpperBasin	17002-SURFACE-12180-SURFACE	-1.303	-1.635	-0.971	<0.0001
00078	Secchi disc (m)	UpperBasin	17244-SURFACE-12180-SURFACE	-0.928	-1.272	-0.585	<0.0001
00078	Secchi disc (m)	UpperBasin	17474-SURFACE-12180-SURFACE	-1.081	-1.459	-0.703	<0.0001
00078	Secchi disc (m)	UpperBasin	21614-SURFACE-12180-SURFACE	-0.679	-1.070	-0.288	<0.0001
00078	Secchi disc (m)	UpperBasin	12360-SURFACE-12359-SURFACE	-0.639	-1.071	-0.207	<0.0001
00078	Secchi disc (m)	UpperBasin	12363-SURFACE-12359-SURFACE	-0.743	-1.144	-0.343	<0.0001
00078	Secchi disc (m)	UpperBasin	12365-SURFACE-12359-SURFACE	-0.713	-1.117	-0.309	<0.0001
00078	Secchi disc (m)	UpperBasin	12511-SURFACE-12359-SURFACE	0.598	0.156	1.041	4e-04
00078	Secchi disc (m)	UpperBasin	13651-SURFACE-12359-SURFACE	-0.469	-0.885	-0.053	0.0103
00078	Secchi disc (m)	UpperBasin	16901-SURFACE-12359-SURFACE	-0.460	-0.895	-0.025	0.0251
00078	Secchi disc (m)	UpperBasin	17002-SURFACE-12359-SURFACE	-0.709	-1.123	-0.295	<0.0001
00078	Secchi disc (m)	UpperBasin	17474-SURFACE-12359-SURFACE	-0.487	-0.939	-0.035	0.0195
00078	Secchi disc (m)	UpperBasin	12511-SURFACE-12360-SURFACE	1.237	0.867	1.608	<0.0001
00078	Secchi disc (m)	UpperBasin	12513-SURFACE-12360-SURFACE	0.608	0.232	0.984	<0.0001
00078	Secchi disc (m)	UpperBasin	13863-SURFACE-12360-SURFACE	0.948	0.545	1.350	<0.0001
00078	Secchi disc (m)	UpperBasin	21614-SURFACE-12360-SURFACE	0.553	0.159	0.948	1e-04
00078	Secchi disc (m)	UpperBasin	12511-SURFACE-12363-SURFACE	1.342	1.008	1.675	<0.0001
00078	Secchi disc (m)	UpperBasin	12513-SURFACE-12363-SURFACE	0.712	0.373	1.052	<0.0001
00078	Secchi disc (m)	UpperBasin	13863-SURFACE-12363-SURFACE	1.052	0.684	1.420	<0.0001
00078	Secchi disc (m)	UpperBasin	15536-SURFACE-12363-SURFACE	0.435	0.066	0.803	0.0049
00078	Secchi disc (m)	UpperBasin	16899-SURFACE-12363-SURFACE	0.405	0.121	0.690	1e-04
00078	Secchi disc (m)	UpperBasin	17244-SURFACE-12363-SURFACE	0.409	0.102	0.716	5e-04
00078	Secchi disc (m)	UpperBasin	21614-SURFACE-12363-SURFACE	0.658	0.298	1.018	<0.0001
00078	Secchi disc (m)	UpperBasin	12511-SURFACE-12365-SURFACE	1.311	0.973	1.649	<0.0001
00078	Secchi disc (m)	UpperBasin	12513-SURFACE-12365-SURFACE	0.682	0.338	1.026	<0.0001
00078	Secchi disc (m)	UpperBasin	13863-SURFACE-12365-SURFACE	1.022	0.649	1.394	<0.0001

00078	Secchi disc (m)	UpperBasin	15536-SURFACE-12365-SURFACE	0.404	0.032	0.777	0.0178
00078	Secchi disc (m)	UpperBasin	16899-SURFACE-12365-SURFACE	0.375	0.085	0.665	9e-04
00078	Secchi disc (m)	UpperBasin	17244-SURFACE-12365-SURFACE	0.378	0.066	0.690	0.0031
00078	Secchi disc (m)	UpperBasin	21614-SURFACE-12365-SURFACE	0.628	0.263	0.992	<0.0001
00078	Secchi disc (m)	UpperBasin	12513-SURFACE-12511-SURFACE	-0.629	-1.018	-0.241	<0.0001
00078	Secchi disc (m)	UpperBasin	13651-SURFACE-12511-SURFACE	-1.067	-1.420	-0.715	<0.0001
00078	Secchi disc (m)	UpperBasin	15536-SURFACE-12511-SURFACE	-0.907	-1.321	-0.493	<0.0001
00078	Secchi disc (m)	UpperBasin	16899-SURFACE-12511-SURFACE	-0.936	-1.278	-0.595	<0.0001
00078	Secchi disc (m)	UpperBasin	16901-SURFACE-12511-SURFACE	-1.059	-1.433	-0.684	<0.0001
00078	Secchi disc (m)	UpperBasin	17002-SURFACE-12511-SURFACE	-1.307	-1.657	-0.957	<0.0001
00078	Secchi disc (m)	UpperBasin	17244-SURFACE-12511-SURFACE	-0.933	-1.294	-0.573	<0.0001
00078	Secchi disc (m)	UpperBasin	17474-SURFACE-12511-SURFACE	-1.086	-1.479	-0.692	<0.0001
00078	Secchi disc (m)	UpperBasin	21614-SURFACE-12511-SURFACE	-0.684	-1.090	-0.277	<0.0001
00078	Secchi disc (m)	UpperBasin	13651-SURFACE-12513-SURFACE	-0.438	-0.796	-0.080	0.0026
00078	Secchi disc (m)	UpperBasin	16901-SURFACE-12513-SURFACE	-0.429	-0.809	-0.050	0.0098
00078	Secchi disc (m)	UpperBasin	17002-SURFACE-12513-SURFACE	-0.678	-1.034	-0.323	<0.0001
00078	Secchi disc (m)	UpperBasin	17474-SURFACE-12513-SURFACE	-0.456	-0.855	-0.058	0.0081
00078	Secchi disc (m)	UpperBasin	13863-SURFACE-13651-SURFACE	0.778	0.392	1.163	<0.0001
00078	Secchi disc (m)	UpperBasin	21614-SURFACE-13651-SURFACE	0.384	0.006	0.761	0.0415
00078	Secchi disc (m)	UpperBasin	15536-SURFACE-13863-SURFACE	-0.617	-1.060	-0.175	2e-04
00078	Secchi disc (m)	UpperBasin	16899-SURFACE-13863-SURFACE	-0.647	-1.023	-0.271	<0.0001
00078	Secchi disc (m)	UpperBasin	16901-SURFACE-13863-SURFACE	-0.769	-1.175	-0.363	<0.0001
00078	Secchi disc (m)	UpperBasin	17002-SURFACE-13863-SURFACE	-1.018	-1.401	-0.634	<0.0001
00078	Secchi disc (m)	UpperBasin	17244-SURFACE-13863-SURFACE	-0.643	-1.036	-0.250	<0.0001
00078	Secchi disc (m)	UpperBasin	17474-SURFACE-13863-SURFACE	-0.796	-1.220	-0.372	<0.0001
00078	Secchi disc (m)	UpperBasin	17002-SURFACE-15536-SURFACE	-0.400	-0.784	-0.017	0.0297
00078	Secchi disc (m)	UpperBasin	17002-SURFACE-16899-SURFACE	-0.371	-0.675	-0.067	0.0027
00078	Secchi disc (m)	UpperBasin	17244-SURFACE-17002-SURFACE	0.374	0.049	0.699	0.0073
00078	Secchi disc (m)	UpperBasin	21614-SURFACE-17002-SURFACE	0.624	0.248	0.999	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12160-SURFACE-12156-SURFACE	3.688	1.115	6.262	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12180-BOTTOM-12156-SURFACE	-4.018	-6.708	-1.327	<0.0001

00300	Dissolved Oxygen (mg/L)	UpperBasin	12359-BOTTOM-12156-SURFACE	-5.204	-8.624	-1.785	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12511-BOTTOM-12156-SURFACE	-5.809	-8.705	-2.914	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12513-BOTTOM-12156-SURFACE	-5.694	-8.590	-2.799	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-BOTTOM-12156-SURFACE	-5.179	-8.348	-2.011	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-12156-SURFACE	-4.213	-7.381	-1.044	3e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	12160-SURFACE-12158-SURFACE	2.956	0.464	5.447	0.0036
00300	Dissolved Oxygen (mg/L)	UpperBasin	12180-BOTTOM-12158-SURFACE	-4.751	-7.363	-2.138	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12359-BOTTOM-12158-SURFACE	-5.937	-9.295	-2.579	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12511-BOTTOM-12158-SURFACE	-6.542	-9.365	-3.719	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12513-BOTTOM-12158-SURFACE	-6.427	-9.250	-3.604	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-BOTTOM-12158-SURFACE	-5.912	-9.014	-2.810	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-12158-SURFACE	-4.945	-8.048	-1.843	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12169-SURFACE-12160-SURFACE	-4.843	-8.230	-1.456	1e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	12180-BOTTOM-12160-SURFACE	-7.706	-10.355	-5.057	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12180-SURFACE-12160-SURFACE	-3.999	-6.648	-1.349	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12359-BOTTOM-12160-SURFACE	-8.893	-12.280	-5.506	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12359-SURFACE-12160-SURFACE	-4.734	-8.121	-1.347	1e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	12360-SURFACE-12160-SURFACE	-3.063	-5.447	-0.679	7e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	12363-SURFACE-12160-SURFACE	-4.463	-6.789	-2.138	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12365-SURFACE-12160-SURFACE	-2.982	-5.329	-0.634	9e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	12511-BOTTOM-12160-SURFACE	-9.498	-12.355	-6.641	<0.0001

00300	Dissolved Oxygen (mg/L)	UpperBasin	12511-SURFACE-12160-SURFACE	-4.108	-6.965	-1.251	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12513-BOTTOM-12160-SURFACE	-9.383	-12.240	-6.526	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12513-SURFACE-12160-SURFACE	-4.488	-7.345	-1.631	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13651-SURFACE-12160-SURFACE	-3.456	-5.827	-1.084	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-BOTTOM-12160-SURFACE	-8.868	-12.001	-5.734	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-SURFACE-12160-SURFACE	-4.324	-7.391	-1.257	1e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	15536-SURFACE-12160-SURFACE	-3.440	-6.118	-0.762	7e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	16899-SURFACE-12160-SURFACE	-4.557	-6.955	-2.160	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	16901-SURFACE-12160-SURFACE	-3.716	-6.114	-1.319	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	17244-SURFACE-12160-SURFACE	-3.200	-5.674	-0.726	6e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	17474-SURFACE-12160-SURFACE	-3.549	-5.896	-1.202	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-12160-SURFACE	-7.901	-11.034	-4.768	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-SURFACE-12160-SURFACE	-4.250	-7.257	-1.244	1e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	12511-BOTTOM-12169-SURFACE	-4.655	-8.293	-1.017	8e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	12513-BOTTOM-12169-SURFACE	-4.540	-8.178	-0.902	0.0013
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-BOTTOM-12169-SURFACE	-4.025	-7.883	-0.167	0.0289
00300	Dissolved Oxygen (mg/L)	UpperBasin	12180-SURFACE-12180-BOTTOM	3.708	0.945	6.471	3e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	12360-SURFACE-12180-BOTTOM	4.643	2.134	7.153	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12363-SURFACE-12180-BOTTOM	3.243	0.789	5.697	4e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	12365-SURFACE-12180-BOTTOM	4.725	2.250	7.199	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12511-SURFACE-12180-BOTTOM	3.598	0.635	6.561	0.0023

00300	Dissolved Oxygen (mg/L)	UpperBasin	12513-SURFACE-12180-BOTTOM	3.218	0.255	6.181	0.0161
00300	Dissolved Oxygen (mg/L)	UpperBasin	13651-SURFACE-12180-BOTTOM	4.251	1.753	6.748	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-SURFACE-12180-BOTTOM	3.382	0.217	6.548	0.0206
00300	Dissolved Oxygen (mg/L)	UpperBasin	15536-SURFACE-12180-BOTTOM	4.266	1.476	7.057	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	16899-SURFACE-12180-BOTTOM	3.149	0.626	5.671	0.0013
00300	Dissolved Oxygen (mg/L)	UpperBasin	16901-SURFACE-12180-BOTTOM	3.990	1.467	6.512	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	17002-SURFACE-12180-BOTTOM	5.404	2.869	7.940	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	17244-SURFACE-12180-BOTTOM	4.506	1.911	7.102	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	17474-SURFACE-12180-BOTTOM	4.157	1.682	6.632	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	18338-SURFACE-12180-BOTTOM	5.861	3.123	8.598	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-SURFACE-12180-BOTTOM	3.456	0.349	6.563	0.0111
00300	Dissolved Oxygen (mg/L)	UpperBasin	12359-BOTTOM-12180-SURFACE	-4.894	-8.371	-1.418	1e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	12511-BOTTOM-12180-SURFACE	-5.499	-8.462	-2.536	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12513-BOTTOM-12180-SURFACE	-5.384	-8.347	-2.421	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-BOTTOM-12180-SURFACE	-4.869	-8.099	-1.639	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-12180-SURFACE	-3.903	-7.133	-0.672	0.0026
00300	Dissolved Oxygen (mg/L)	UpperBasin	12359-SURFACE-12359-BOTTOM	4.158	0.091	8.225	0.0378
00300	Dissolved Oxygen (mg/L)	UpperBasin	12360-SURFACE-12359-BOTTOM	5.830	2.551	9.109	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12363-SURFACE-12359-BOTTOM	4.429	1.193	7.666	2e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	12365-SURFACE-12359-BOTTOM	5.911	2.659	9.163	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12511-SURFACE-12359-BOTTOM	4.785	1.147	8.423	4e-04

00300	Dissolved Oxygen (mg/L)	UpperBasin	12513-SURFACE-12359-BOTTOM	4.405	0.767	8.043	0.0025
00300	Dissolved Oxygen (mg/L)	UpperBasin	13651-SURFACE-12359-BOTTOM	5.437	2.167	8.707	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-SURFACE-12359-BOTTOM	4.569	0.764	8.373	0.0029
00300	Dissolved Oxygen (mg/L)	UpperBasin	15536-SURFACE-12359-BOTTOM	5.453	1.954	8.952	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	16899-SURFACE-12359-BOTTOM	4.335	1.047	7.624	4e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	16901-SURFACE-12359-BOTTOM	5.176	1.888	8.465	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	17002-SURFACE-12359-BOTTOM	6.591	3.292	9.890	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	17244-SURFACE-12359-BOTTOM	5.693	2.348	9.038	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	17474-SURFACE-12359-BOTTOM	5.344	2.091	8.596	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	18338-SURFACE-12359-BOTTOM	7.047	3.591	10.504	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-SURFACE-12359-BOTTOM	4.643	0.887	8.399	0.0016
00300	Dissolved Oxygen (mg/L)	UpperBasin	12511-BOTTOM-12359-SURFACE	-4.763	-8.401	-1.126	5e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	12513-BOTTOM-12359-SURFACE	-4.648	-8.286	-1.011	8e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-BOTTOM-12359-SURFACE	-4.133	-7.992	-0.275	0.0198
00300	Dissolved Oxygen (mg/L)	UpperBasin	12511-BOTTOM-12360-SURFACE	-6.435	-9.163	-3.707	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12513-BOTTOM-12360-SURFACE	-6.320	-9.048	-3.592	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-BOTTOM-12360-SURFACE	-5.805	-8.821	-2.789	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-12360-SURFACE	-4.838	-7.855	-1.822	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12511-BOTTOM-12363-SURFACE	-5.034	-7.712	-2.357	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12513-BOTTOM-12363-SURFACE	-4.919	-7.597	-2.242	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-BOTTOM-12363-SURFACE	-4.404	-7.375	-1.434	<0.0001

00300	Dissolved Oxygen (mg/L)	UpperBasin	18338-SURFACE-12363-SURFACE	2.618	0.193	5.043	0.0177
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-12363-SURFACE	-3.438	-6.408	-0.468	0.0057
00300	Dissolved Oxygen (mg/L)	UpperBasin	12511-BOTTOM-12365-SURFACE	-6.516	-9.212	-3.820	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12513-BOTTOM-12365-SURFACE	-6.401	-9.097	-3.705	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-BOTTOM-12365-SURFACE	-5.886	-8.873	-2.899	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-12365-SURFACE	-4.919	-7.907	-1.932	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12511-SURFACE-12511-BOTTOM	5.390	2.240	8.540	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12513-SURFACE-12511-BOTTOM	5.010	1.860	8.160	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13651-SURFACE-12511-BOTTOM	6.042	3.325	8.759	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-SURFACE-12511-BOTTOM	5.174	1.832	8.515	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	15536-SURFACE-12511-BOTTOM	6.058	3.069	9.047	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	16899-SURFACE-12511-BOTTOM	4.940	2.200	7.680	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	16901-SURFACE-12511-BOTTOM	5.781	3.041	8.521	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	17002-SURFACE-12511-BOTTOM	7.196	4.444	9.948	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	17244-SURFACE-12511-BOTTOM	6.298	3.490	9.105	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	17474-SURFACE-12511-BOTTOM	5.949	3.252	8.645	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	18338-SURFACE-12511-BOTTOM	7.652	4.713	10.591	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-SURFACE-12511-BOTTOM	5.248	1.961	8.534	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	12513-BOTTOM-12511-SURFACE	-5.275	-8.425	-2.125	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-BOTTOM-12511-SURFACE	-4.760	-8.163	-1.357	1e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-12511-SURFACE	-3.793	-7.196	-0.391	0.0107

00300	Dissolved Oxygen (mg/L)	UpperBasin	12513-SURFACE-12513-BOTTOM	4.895	1.745	8.045	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13651-SURFACE-12513-BOTTOM	5.927	3.210	8.644	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-SURFACE-12513-BOTTOM	5.059	1.717	8.400	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	15536-SURFACE-12513-BOTTOM	5.943	2.954	8.932	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	16899-SURFACE-12513-BOTTOM	4.825	2.085	7.565	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	16901-SURFACE-12513-BOTTOM	5.666	2.926	8.406	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	17002-SURFACE-12513-BOTTOM	7.081	4.329	9.833	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	17244-SURFACE-12513-BOTTOM	6.183	3.375	8.990	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	17474-SURFACE-12513-BOTTOM	5.834	3.137	8.530	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	18338-SURFACE-12513-BOTTOM	7.537	4.598	10.476	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-SURFACE-12513-BOTTOM	5.133	1.846	8.419	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-BOTTOM-12513-SURFACE	-4.380	-7.783	-0.977	7e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-12513-SURFACE	-3.413	-6.816	-0.011	0.0481
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-BOTTOM-13651-SURFACE	-5.412	-8.418	-2.406	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-13651-SURFACE	-4.446	-7.452	-1.439	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	13863-SURFACE-13863-BOTTOM	4.544	0.963	8.124	9e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	15536-SURFACE-13863-BOTTOM	5.428	2.174	8.682	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	16899-SURFACE-13863-BOTTOM	4.310	1.284	7.337	1e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	16901-SURFACE-13863-BOTTOM	5.151	2.125	8.178	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	17002-SURFACE-13863-BOTTOM	6.566	3.528	9.604	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	17244-SURFACE-13863-BOTTOM	5.668	2.580	8.756	<0.0001

00300	Dissolved Oxygen (mg/L)	UpperBasin	17474-SURFACE-13863-BOTTOM	5.319	2.331	8.306	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	18338-SURFACE-13863-BOTTOM	7.022	3.814	10.230	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-SURFACE-13863-BOTTOM	4.618	1.089	8.147	5e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-15536-SURFACE	-4.461	-7.715	-1.208	2e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	18338-SURFACE-16899-SURFACE	2.712	0.218	5.206	0.0158
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-16899-SURFACE	-3.344	-6.370	-0.317	0.0124
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-16901-SURFACE	-4.185	-7.211	-1.158	1e-04
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-17002-SURFACE	-5.599	-8.637	-2.561	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-17244-SURFACE	-4.701	-7.789	-1.613	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-17474-SURFACE	-4.352	-7.339	-1.365	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-BOTTOM-18338-SURFACE	-6.056	-9.264	-2.847	<0.0001
00300	Dissolved Oxygen (mg/L)	UpperBasin	21614-SURFACE-21614-BOTTOM	3.651	0.122	7.180	0.0323
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12180-BOTTOM-12156-SURFACE	-60.799	-95.677	-25.920	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12359-BOTTOM-12156-SURFACE	-59.415	-94.294	-24.537	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12511-BOTTOM-12156-SURFACE	-69.592	-99.127	-40.057	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12513-BOTTOM-12156-SURFACE	-67.767	-97.302	-38.232	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	13863-BOTTOM-12156-SURFACE	-59.127	-91.444	-26.809	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-12156-SURFACE	-53.260	-85.578	-20.943	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12180-BOTTOM-12169-SURFACE	-52.450	-93.934	-10.966	0.0012
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12359-BOTTOM-12169-SURFACE	-51.067	-92.551	-9.583	0.0021
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12511-BOTTOM-12169-SURFACE	-61.243	-98.348	-24.139	<0.0001

00301	Dissolved Oxygen (% of saturation)	UpperBasin	12513-BOTTOM-12169-SURFACE	-59.418	-96.523	-22.314	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	13863-BOTTOM-12169-SURFACE	-50.778	-90.133	-11.423	8e-04
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-12169-SURFACE	-44.912	-84.267	-5.557	0.0079
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12180-SURFACE-12180-BOTTOM	59.758	18.274	101.242	1e-04
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12359-SURFACE-12180-BOTTOM	55.575	14.091	97.059	3e-04
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12360-SURFACE-12180-BOTTOM	75.369	41.924	108.815	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12511-SURFACE-12180-BOTTOM	60.097	22.992	97.201	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12513-SURFACE-12180-BOTTOM	57.022	19.917	94.126	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	13651-SURFACE-12180-BOTTOM	65.911	32.560	99.262	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	13863-SURFACE-12180-BOTTOM	60.785	21.981	99.590	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	15536-SURFACE-12180-BOTTOM	66.116	30.430	101.802	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	16899-SURFACE-12180-BOTTOM	51.379	17.835	84.923	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	16901-SURFACE-12180-BOTTOM	61.753	28.209	95.297	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17002-SURFACE-12180-BOTTOM	81.434	47.786	115.082	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17244-SURFACE-12180-BOTTOM	70.224	36.104	104.344	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17474-SURFACE-12180-BOTTOM	62.301	29.126	95.476	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	18338-SURFACE-12180-BOTTOM	85.562	50.307	120.817	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-SURFACE-12180-BOTTOM	56.727	18.415	95.039	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12359-BOTTOM-12180-SURFACE	-58.375	-99.859	-16.891	1e-04
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12511-BOTTOM-12180-SURFACE	-68.552	-105.656	-31.447	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12513-BOTTOM-12180-SURFACE	-66.727	-103.831	-29.622	<0.0001

00301	Dissolved Oxygen (% of saturation)	UpperBasin	13863-BOTTOM-12180-SURFACE	-58.087	-97.442	-18.732	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-12180-SURFACE	-52.220	-91.575	-12.865	4e-04
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12359-SURFACE-12359-BOTTOM	54.192	12.708	95.676	6e-04
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12360-SURFACE-12359-BOTTOM	73.986	40.540	107.431	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12511-SURFACE-12359-BOTTOM	58.713	21.609	95.818	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12513-SURFACE-12359-BOTTOM	55.638	18.534	92.743	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	13651-SURFACE-12359-BOTTOM	64.528	31.177	97.879	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	13863-SURFACE-12359-BOTTOM	59.402	20.597	98.207	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	15536-SURFACE-12359-BOTTOM	64.732	29.046	100.418	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	16899-SURFACE-12359-BOTTOM	49.996	16.451	83.540	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	16901-SURFACE-12359-BOTTOM	60.370	26.826	93.914	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17002-SURFACE-12359-BOTTOM	80.050	46.403	113.698	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17244-SURFACE-12359-BOTTOM	68.841	34.721	102.960	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17474-SURFACE-12359-BOTTOM	60.918	27.743	94.093	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	18338-SURFACE-12359-BOTTOM	84.179	48.924	119.433	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-SURFACE-12359-BOTTOM	55.344	17.031	93.656	1e-04
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12511-BOTTOM-12359-SURFACE	-64.368	-101.473	-27.264	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12513-BOTTOM-12359-SURFACE	-62.543	-99.648	-25.439	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	13863-BOTTOM-12359-SURFACE	-53.903	-93.258	-14.548	2e-04
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-12359-SURFACE	-48.037	-87.392	-8.682	0.0024
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12511-BOTTOM-12360-SURFACE	-84.163	-111.991	-56.334	<0.0001

00301	Dissolved Oxygen (% of saturation)	UpperBasin	12513-BOTTOM-12360-SURFACE	-82.337	-110.166	-54.509	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	13863-BOTTOM-12360-SURFACE	-73.698	-104.463	-42.932	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	16899-SURFACE-12360-SURFACE	-23.990	-46.857	-1.123	0.0274
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-12360-SURFACE	-67.831	-98.596	-37.066	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12511-SURFACE-12511-BOTTOM	68.890	36.757	101.023	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12513-SURFACE-12511-BOTTOM	65.815	33.682	97.948	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	13651-SURFACE-12511-BOTTOM	74.705	46.990	102.419	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	13863-SURFACE-12511-BOTTOM	69.579	35.496	103.661	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	15536-SURFACE-12511-BOTTOM	74.909	44.425	105.393	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	16899-SURFACE-12511-BOTTOM	60.172	32.225	88.119	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	16901-SURFACE-12511-BOTTOM	70.547	42.600	98.493	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17002-SURFACE-12511-BOTTOM	90.227	62.156	118.298	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17244-SURFACE-12511-BOTTOM	79.017	50.382	107.652	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17474-SURFACE-12511-BOTTOM	71.094	43.592	98.597	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	18338-SURFACE-12511-BOTTOM	94.355	64.377	124.334	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-SURFACE-12511-BOTTOM	65.520	31.999	99.041	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12513-BOTTOM-12511-SURFACE	-67.065	-99.198	-34.932	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	13863-BOTTOM-12511-SURFACE	-58.425	-93.133	-23.717	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-12511-SURFACE	-52.558	-87.266	-17.850	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	12513-SURFACE-12513-BOTTOM	63.990	31.857	96.123	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	13651-SURFACE-12513-BOTTOM	72.880	45.165	100.594	<0.0001

00301	Dissolved Oxygen (% of saturation)	UpperBasin	13863-SURFACE-12513-BOTTOM	67.754	33.671	101.836	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	15536-SURFACE-12513-BOTTOM	73.084	42.600	103.568	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	16899-SURFACE-12513-BOTTOM	58.347	30.400	86.294	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	16901-SURFACE-12513-BOTTOM	68.722	40.775	96.668	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17002-SURFACE-12513-BOTTOM	88.402	60.331	116.473	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17244-SURFACE-12513-BOTTOM	77.192	48.557	105.827	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17474-SURFACE-12513-BOTTOM	69.269	41.767	96.772	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	18338-SURFACE-12513-BOTTOM	92.530	62.552	122.509	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-SURFACE-12513-BOTTOM	63.695	30.174	97.216	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	13863-BOTTOM-12513-SURFACE	-55.350	-90.058	-20.642	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-12513-SURFACE	-49.483	-84.191	-14.775	1e-04
00301	Dissolved Oxygen (% of saturation)	UpperBasin	13863-BOTTOM-13651-SURFACE	-64.240	-94.902	-33.577	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-13651-SURFACE	-58.373	-89.036	-27.710	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	13863-SURFACE-13863-BOTTOM	59.114	22.594	95.634	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	15536-SURFACE-13863-BOTTOM	64.444	31.257	97.631	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	16899-SURFACE-13863-BOTTOM	49.707	18.834	80.580	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	16901-SURFACE-13863-BOTTOM	60.082	29.209	90.954	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17002-SURFACE-13863-BOTTOM	79.762	48.777	110.747	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17244-SURFACE-13863-BOTTOM	68.552	37.055	100.049	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17474-SURFACE-13863-BOTTOM	60.629	30.158	91.101	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	18338-SURFACE-13863-BOTTOM	83.890	51.167	116.613	<0.0001

00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-SURFACE-13863-BOTTOM	55.055	19.059	91.052	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-13863-SURFACE	-53.247	-89.767	-16.727	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-15536-SURFACE	-58.577	-91.764	-25.390	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	17002-SURFACE-16899-SURFACE	30.055	6.893	53.217	7e-04
00301	Dissolved Oxygen (% of saturation)	UpperBasin	18338-SURFACE-16899-SURFACE	34.183	8.743	59.623	3e-04
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-16899-SURFACE	-43.841	-74.713	-12.968	1e-04
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-16901-SURFACE	-54.215	-85.088	-23.342	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-17002-SURFACE	-73.895	-104.881	-42.910	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-17244-SURFACE	-62.686	-94.183	-31.189	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-17474-SURFACE	-54.763	-85.234	-24.291	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-BOTTOM-18338-SURFACE	-78.024	-110.747	-45.301	<0.0001
00301	Dissolved Oxygen (% of saturation)	UpperBasin	21614-SURFACE-21614-BOTTOM	49.189	13.192	85.185	2e-04
00400	pH (Standard Units)	UpperBasin	12359-BOTTOM-12156-SURFACE	-0.493	-0.897	-0.088	0.0022
00400	pH (Standard Units)	UpperBasin	12363-SURFACE-12156-SURFACE	-0.493	-0.767	-0.219	<0.0001
00400	pH (Standard Units)	UpperBasin	12511-BOTTOM-12156-SURFACE	-0.511	-0.849	-0.173	<0.0001
00400	pH (Standard Units)	UpperBasin	12513-BOTTOM-12156-SURFACE	-0.516	-0.854	-0.178	<0.0001
00400	pH (Standard Units)	UpperBasin	13651-SURFACE-12156-SURFACE	-0.378	-0.658	-0.098	2e-04
00400	pH (Standard Units)	UpperBasin	13863-BOTTOM-12156-SURFACE	-0.504	-0.876	-0.131	2e-04
00400	pH (Standard Units)	UpperBasin	18338-SURFACE-12156-SURFACE	-0.437	-0.743	-0.130	1e-04
00400	pH (Standard Units)	UpperBasin	12180-SURFACE-12158-SURFACE	0.460	0.159	0.762	<0.0001
00400	pH (Standard Units)	UpperBasin	12365-SURFACE-12158-SURFACE	0.367	0.103	0.630	1e-04
00400	pH (Standard Units)	UpperBasin	12511-SURFACE-12158-SURFACE	0.384	0.056	0.711	0.0045
00400	pH (Standard Units)	UpperBasin	12513-SURFACE-12158-SURFACE	0.363	0.035	0.690	0.0119
00400	pH (Standard Units)	UpperBasin	15536-SURFACE-12158-SURFACE	0.307	0.002	0.612	0.0457
00400	pH (Standard Units)	UpperBasin	17002-SURFACE-12158-SURFACE	0.282	0.010	0.555	0.0312
00400	pH (Standard Units)	UpperBasin	21614-SURFACE-12158-SURFACE	0.556	0.202	0.910	<0.0001

00400	pH (Standard Units)	UpperBasin	12359-BOTTOM-12160-SURFACE	-0.524	-0.923	-0.125	4e-04
00400	pH (Standard Units)	UpperBasin	12363-SURFACE-12160-SURFACE	-0.524	-0.790	-0.259	<0.0001
00400	pH (Standard Units)	UpperBasin	12511-BOTTOM-12160-SURFACE	-0.542	-0.873	-0.211	<0.0001
00400	pH (Standard Units)	UpperBasin	12513-BOTTOM-12160-SURFACE	-0.547	-0.878	-0.216	<0.0001
00400	pH (Standard Units)	UpperBasin	13651-SURFACE-12160-SURFACE	-0.409	-0.681	-0.137	<0.0001
00400	pH (Standard Units)	UpperBasin	13863-BOTTOM-12160-SURFACE	-0.535	-0.901	-0.169	<0.0001
00400	pH (Standard Units)	UpperBasin	16901-SURFACE-12160-SURFACE	-0.300	-0.575	-0.025	0.0153
00400	pH (Standard Units)	UpperBasin	18338-SURFACE-12160-SURFACE	-0.468	-0.767	-0.169	<0.0001
00400	pH (Standard Units)	UpperBasin	12359-BOTTOM-12169-SURFACE	-0.615	-1.090	-0.141	6e-04
00400	pH (Standard Units)	UpperBasin	12363-SURFACE-12169-SURFACE	-0.616	-0.985	-0.246	<0.0001
00400	pH (Standard Units)	UpperBasin	12511-BOTTOM-12169-SURFACE	-0.633	-1.053	-0.214	<0.0001
00400	pH (Standard Units)	UpperBasin	12513-BOTTOM-12169-SURFACE	-0.639	-1.058	-0.219	<0.0001
00400	pH (Standard Units)	UpperBasin	13651-SURFACE-12169-SURFACE	-0.501	-0.875	-0.127	3e-04
00400	pH (Standard Units)	UpperBasin	13863-BOTTOM-12169-SURFACE	-0.626	-1.073	-0.179	1e-04
00400	pH (Standard Units)	UpperBasin	16901-SURFACE-12169-SURFACE	-0.391	-0.768	-0.015	0.0304
00400	pH (Standard Units)	UpperBasin	18338-SURFACE-12169-SURFACE	-0.559	-0.954	-0.165	1e-04
00400	pH (Standard Units)	UpperBasin	12180-SURFACE-12180-BOTTOM	0.428	0.106	0.750	3e-04
00400	pH (Standard Units)	UpperBasin	12365-SURFACE-12180-BOTTOM	0.334	0.048	0.620	0.0048
00400	pH (Standard Units)	UpperBasin	12511-SURFACE-12180-BOTTOM	0.351	0.005	0.697	0.0412
00400	pH (Standard Units)	UpperBasin	21614-SURFACE-12180-BOTTOM	0.524	0.153	0.895	1e-04
00400	pH (Standard Units)	UpperBasin	12359-BOTTOM-12180-SURFACE	-0.706	-1.117	-0.294	<0.0001
00400	pH (Standard Units)	UpperBasin	12360-SURFACE-12180-SURFACE	-0.309	-0.600	-0.017	0.0232
00400	pH (Standard Units)	UpperBasin	12363-SURFACE-12180-SURFACE	-0.706	-0.990	-0.423	<0.0001
00400	pH (Standard Units)	UpperBasin	12511-BOTTOM-12180-SURFACE	-0.724	-1.070	-0.378	<0.0001
00400	pH (Standard Units)	UpperBasin	12513-BOTTOM-12180-SURFACE	-0.729	-1.075	-0.383	<0.0001
00400	pH (Standard Units)	UpperBasin	13651-SURFACE-12180-SURFACE	-0.592	-0.881	-0.302	<0.0001
00400	pH (Standard Units)	UpperBasin	13863-BOTTOM-12180-SURFACE	-0.717	-1.096	-0.337	<0.0001
00400	pH (Standard Units)	UpperBasin	16899-SURFACE-12180-SURFACE	-0.371	-0.664	-0.079	9e-04
00400	pH (Standard Units)	UpperBasin	16901-SURFACE-12180-SURFACE	-0.482	-0.775	-0.189	<0.0001
00400	pH (Standard Units)	UpperBasin	17474-SURFACE-12180-SURFACE	-0.419	-0.706	-0.132	<0.0001
00400	pH (Standard Units)	UpperBasin	18338-SURFACE-12180-SURFACE	-0.650	-0.965	-0.334	<0.0001
00400	pH (Standard Units)	UpperBasin	21614-BOTTOM-12180-SURFACE	-0.495	-0.875	-0.116	5e-04

00400	pH (Standard Units)	UpperBasin	12360-SURFACE-12359-BOTTOM	0.397	0.009	0.785	0.0373
00400	pH (Standard Units)	UpperBasin	12365-SURFACE-12359-BOTTOM	0.612	0.228	0.996	<0.0001
00400	pH (Standard Units)	UpperBasin	12511-SURFACE-12359-BOTTOM	0.629	0.198	1.060	<0.0001
00400	pH (Standard Units)	UpperBasin	12513-SURFACE-12359-BOTTOM	0.608	0.177	1.039	1e-04
00400	pH (Standard Units)	UpperBasin	13863-SURFACE-12359-BOTTOM	0.595	0.144	1.046	4e-04
00400	pH (Standard Units)	UpperBasin	15536-SURFACE-12359-BOTTOM	0.553	0.139	0.967	3e-04
00400	pH (Standard Units)	UpperBasin	17002-SURFACE-12359-BOTTOM	0.528	0.137	0.918	2e-04
00400	pH (Standard Units)	UpperBasin	17244-SURFACE-12359-BOTTOM	0.512	0.116	0.908	6e-04
00400	pH (Standard Units)	UpperBasin	21614-SURFACE-12359-BOTTOM	0.802	0.351	1.253	<0.0001
00400	pH (Standard Units)	UpperBasin	12363-SURFACE-12359-SURFACE	-0.473	-0.856	-0.091	0.0016
00400	pH (Standard Units)	UpperBasin	12511-BOTTOM-12359-SURFACE	-0.491	-0.922	-0.060	0.0074
00400	pH (Standard Units)	UpperBasin	12513-BOTTOM-12359-SURFACE	-0.496	-0.927	-0.065	0.0062
00400	pH (Standard Units)	UpperBasin	13863-BOTTOM-12359-SURFACE	-0.484	-0.942	-0.026	0.0243
00400	pH (Standard Units)	UpperBasin	18338-SURFACE-12359-SURFACE	-0.417	-0.823	-0.010	0.0365
00400	pH (Standard Units)	UpperBasin	12363-SURFACE-12360-SURFACE	-0.398	-0.646	-0.149	<0.0001
00400	pH (Standard Units)	UpperBasin	12511-BOTTOM-12360-SURFACE	-0.415	-0.733	-0.097	5e-04
00400	pH (Standard Units)	UpperBasin	12513-BOTTOM-12360-SURFACE	-0.421	-0.739	-0.103	4e-04
00400	pH (Standard Units)	UpperBasin	13651-SURFACE-12360-SURFACE	-0.283	-0.539	-0.027	0.0122
00400	pH (Standard Units)	UpperBasin	13863-BOTTOM-12360-SURFACE	-0.408	-0.762	-0.054	0.0061
00400	pH (Standard Units)	UpperBasin	18338-SURFACE-12360-SURFACE	-0.341	-0.626	-0.057	0.003
00400	pH (Standard Units)	UpperBasin	21614-SURFACE-12360-SURFACE	0.405	0.059	0.750	0.0046
00400	pH (Standard Units)	UpperBasin	12365-SURFACE-12363-SURFACE	0.612	0.370	0.855	<0.0001
00400	pH (Standard Units)	UpperBasin	12511-SURFACE-12363-SURFACE	0.630	0.319	0.941	<0.0001
00400	pH (Standard Units)	UpperBasin	12513-SURFACE-12363-SURFACE	0.609	0.298	0.920	<0.0001
00400	pH (Standard Units)	UpperBasin	13863-SURFACE-12363-SURFACE	0.596	0.257	0.934	<0.0001
00400	pH (Standard Units)	UpperBasin	15536-SURFACE-12363-SURFACE	0.553	0.266	0.840	<0.0001
00400	pH (Standard Units)	UpperBasin	16899-SURFACE-12363-SURFACE	0.335	0.084	0.585	3e-04
00400	pH (Standard Units)	UpperBasin	17002-SURFACE-12363-SURFACE	0.528	0.276	0.780	<0.0001
00400	pH (Standard Units)	UpperBasin	17244-SURFACE-12363-SURFACE	0.513	0.252	0.773	<0.0001
00400	pH (Standard Units)	UpperBasin	17474-SURFACE-12363-SURFACE	0.287	0.043	0.531	0.0042
00400	pH (Standard Units)	UpperBasin	21614-SURFACE-12363-SURFACE	0.802	0.463	1.141	<0.0001
00400	pH (Standard Units)	UpperBasin	12511-BOTTOM-12365-SURFACE	-0.630	-0.943	-0.317	<0.0001

00400	pH (Standard Units)	UpperBasin	12513-BOTTOM-12365-SURFACE	-0.635	-0.949	-0.322	<0.0001
00400	pH (Standard Units)	UpperBasin	13651-SURFACE-12365-SURFACE	-0.498	-0.747	-0.248	<0.0001
00400	pH (Standard Units)	UpperBasin	13863-BOTTOM-12365-SURFACE	-0.623	-0.973	-0.273	<0.0001
00400	pH (Standard Units)	UpperBasin	16899-SURFACE-12365-SURFACE	-0.278	-0.531	-0.024	0.0139
00400	pH (Standard Units)	UpperBasin	16901-SURFACE-12365-SURFACE	-0.388	-0.641	-0.135	<0.0001
00400	pH (Standard Units)	UpperBasin	17474-SURFACE-12365-SURFACE	-0.325	-0.572	-0.079	4e-04
00400	pH (Standard Units)	UpperBasin	18338-SURFACE-12365-SURFACE	-0.556	-0.835	-0.277	<0.0001
00400	pH (Standard Units)	UpperBasin	21614-BOTTOM-12365-SURFACE	-0.402	-0.751	-0.052	0.0065
00400	pH (Standard Units)	UpperBasin	12511-SURFACE-12511-BOTTOM	0.647	0.279	1.016	<0.0001
00400	pH (Standard Units)	UpperBasin	12513-SURFACE-12511-BOTTOM	0.626	0.257	0.995	<0.0001
00400	pH (Standard Units)	UpperBasin	13863-SURFACE-12511-BOTTOM	0.613	0.221	1.006	<0.0001
00400	pH (Standard Units)	UpperBasin	15536-SURFACE-12511-BOTTOM	0.571	0.222	0.920	<0.0001
00400	pH (Standard Units)	UpperBasin	16899-SURFACE-12511-BOTTOM	0.353	0.033	0.672	0.0125
00400	pH (Standard Units)	UpperBasin	17002-SURFACE-12511-BOTTOM	0.546	0.225	0.867	<0.0001
00400	pH (Standard Units)	UpperBasin	17244-SURFACE-12511-BOTTOM	0.530	0.203	0.858	<0.0001
00400	pH (Standard Units)	UpperBasin	21614-SURFACE-12511-BOTTOM	0.820	0.427	1.213	<0.0001
00400	pH (Standard Units)	UpperBasin	12513-BOTTOM-12511-SURFACE	-0.653	-1.021	-0.284	<0.0001
00400	pH (Standard Units)	UpperBasin	13651-SURFACE-12511-SURFACE	-0.515	-0.832	-0.198	<0.0001
00400	pH (Standard Units)	UpperBasin	13863-BOTTOM-12511-SURFACE	-0.640	-1.041	-0.240	<0.0001
00400	pH (Standard Units)	UpperBasin	16901-SURFACE-12511-SURFACE	-0.405	-0.725	-0.086	9e-04
00400	pH (Standard Units)	UpperBasin	17474-SURFACE-12511-SURFACE	-0.343	-0.657	-0.028	0.0153
00400	pH (Standard Units)	UpperBasin	18338-SURFACE-12511-SURFACE	-0.573	-0.914	-0.233	<0.0001
00400	pH (Standard Units)	UpperBasin	21614-BOTTOM-12511-SURFACE	-0.419	-0.819	-0.018	0.0279
00400	pH (Standard Units)	UpperBasin	12513-SURFACE-12513-BOTTOM	0.632	0.263	1.000	<0.0001
00400	pH (Standard Units)	UpperBasin	13863-SURFACE-12513-BOTTOM	0.619	0.226	1.011	<0.0001
00400	pH (Standard Units)	UpperBasin	15536-SURFACE-12513-BOTTOM	0.576	0.227	0.925	<0.0001
00400	pH (Standard Units)	UpperBasin	16899-SURFACE-12513-BOTTOM	0.358	0.038	0.677	0.0099
00400	pH (Standard Units)	UpperBasin	17002-SURFACE-12513-BOTTOM	0.551	0.230	0.872	<0.0001
00400	pH (Standard Units)	UpperBasin	17244-SURFACE-12513-BOTTOM	0.536	0.208	0.863	<0.0001
00400	pH (Standard Units)	UpperBasin	21614-SURFACE-12513-BOTTOM	0.825	0.433	1.218	<0.0001
00400	pH (Standard Units)	UpperBasin	13651-SURFACE-12513-SURFACE	-0.494	-0.811	-0.177	<0.0001
00400	pH (Standard Units)	UpperBasin	13863-BOTTOM-12513-SURFACE	-0.619	-1.020	-0.219	<0.0001

00400	pH (Standard Units)	UpperBasin	16901-SURFACE-12513-SURFACE	-0.384	-0.704	-0.065	0.0028
00400	pH (Standard Units)	UpperBasin	17474-SURFACE-12513-SURFACE	-0.322	-0.636	-0.007	0.0375
00400	pH (Standard Units)	UpperBasin	18338-SURFACE-12513-SURFACE	-0.552	-0.893	-0.212	<0.0001
00400	pH (Standard Units)	UpperBasin	13863-SURFACE-13651-SURFACE	0.481	0.137	0.825	1e-04
00400	pH (Standard Units)	UpperBasin	15536-SURFACE-13651-SURFACE	0.438	0.145	0.732	<0.0001
00400	pH (Standard Units)	UpperBasin	17002-SURFACE-13651-SURFACE	0.413	0.154	0.673	<0.0001
00400	pH (Standard Units)	UpperBasin	17244-SURFACE-13651-SURFACE	0.398	0.130	0.665	<0.0001
00400	pH (Standard Units)	UpperBasin	21614-SURFACE-13651-SURFACE	0.687	0.343	1.032	<0.0001
00400	pH (Standard Units)	UpperBasin	13863-SURFACE-13863-BOTTOM	0.606	0.184	1.029	<0.0001
00400	pH (Standard Units)	UpperBasin	15536-SURFACE-13863-BOTTOM	0.564	0.181	0.946	<0.0001
00400	pH (Standard Units)	UpperBasin	17002-SURFACE-13863-BOTTOM	0.539	0.182	0.896	<0.0001
00400	pH (Standard Units)	UpperBasin	17244-SURFACE-13863-BOTTOM	0.523	0.161	0.886	<0.0001
00400	pH (Standard Units)	UpperBasin	21614-SURFACE-13863-BOTTOM	0.813	0.390	1.235	<0.0001
00400	pH (Standard Units)	UpperBasin	16901-SURFACE-13863-SURFACE	-0.371	-0.718	-0.025	0.0199
00400	pH (Standard Units)	UpperBasin	18338-SURFACE-13863-SURFACE	-0.539	-0.905	-0.173	<0.0001
00400	pH (Standard Units)	UpperBasin	16901-SURFACE-15536-SURFACE	-0.329	-0.625	-0.032	0.0116
00400	pH (Standard Units)	UpperBasin	18338-SURFACE-15536-SURFACE	-0.497	-0.816	-0.178	<0.0001
00400	pH (Standard Units)	UpperBasin	21614-SURFACE-16899-SURFACE	0.467	0.121	0.814	2e-04
00400	pH (Standard Units)	UpperBasin	17002-SURFACE-16901-SURFACE	0.304	0.041	0.566	0.0057
00400	pH (Standard Units)	UpperBasin	17244-SURFACE-16901-SURFACE	0.288	0.018	0.559	0.0215
00400	pH (Standard Units)	UpperBasin	21614-SURFACE-16901-SURFACE	0.578	0.231	0.925	<0.0001
00400	pH (Standard Units)	UpperBasin	18338-SURFACE-17002-SURFACE	-0.472	-0.760	-0.184	<0.0001
00400	pH (Standard Units)	UpperBasin	18338-SURFACE-17244-SURFACE	-0.456	-0.751	-0.161	<0.0001
00400	pH (Standard Units)	UpperBasin	21614-SURFACE-17474-SURFACE	0.515	0.173	0.857	<0.0001
00400	pH (Standard Units)	UpperBasin	21614-SURFACE-18338-SURFACE	0.746	0.380	1.112	<0.0001
00400	pH (Standard Units)	UpperBasin	21614-SURFACE-21614-BOTTOM	0.591	0.169	1.014	1e-04
00620	Nitrate (mg/L)	UpperBasin	12158-SURFACE-12156-SURFACE	9.824	7.538	12.109	<0.0001
00620	Nitrate (mg/L)	UpperBasin	16899-SURFACE-12156-SURFACE	2.562	0.364	4.760	0.0071
00620	Nitrate (mg/L)	UpperBasin	17474-SURFACE-12156-SURFACE	4.796	2.611	6.982	<0.0001
00620	Nitrate (mg/L)	UpperBasin	12160-SURFACE-12158-SURFACE	-8.576	-10.983	-6.169	<0.0001
00620	Nitrate (mg/L)	UpperBasin	12169-SURFACE-12158-SURFACE	-8.602	-11.619	-5.584	<0.0001
00620	Nitrate (mg/L)	UpperBasin	12180-SURFACE-12158-SURFACE	-10.194	-12.869	-7.519	<0.0001

00620	Nitrate (mg/L)	UpperBasin	12363-SURFACE-12158-SURFACE	-9.936	-12.102	-7.770	<0.0001
00620	Nitrate (mg/L)	UpperBasin	12365-SURFACE-12158-SURFACE	-8.777	-11.246	-6.309	<0.0001
00620	Nitrate (mg/L)	UpperBasin	12511-SURFACE-12158-SURFACE	-10.181	-12.763	-7.600	<0.0001
00620	Nitrate (mg/L)	UpperBasin	13651-SURFACE-12158-SURFACE	-9.669	-11.783	-7.555	<0.0001
00620	Nitrate (mg/L)	UpperBasin	15536-SURFACE-12158-SURFACE	-9.527	-11.934	-7.120	<0.0001
00620	Nitrate (mg/L)	UpperBasin	16899-SURFACE-12158-SURFACE	-7.262	-9.401	-5.123	<0.0001
00620	Nitrate (mg/L)	UpperBasin	16901-SURFACE-12158-SURFACE	-9.807	-11.973	-7.641	<0.0001
00620	Nitrate (mg/L)	UpperBasin	17002-SURFACE-12158-SURFACE	-10.137	-12.302	-7.971	<0.0001
00620	Nitrate (mg/L)	UpperBasin	17244-SURFACE-12158-SURFACE	-9.765	-11.977	-7.554	<0.0001
00620	Nitrate (mg/L)	UpperBasin	17474-SURFACE-12158-SURFACE	-5.028	-7.154	-2.901	<0.0001
00620	Nitrate (mg/L)	UpperBasin	17474-SURFACE-12160-SURFACE	3.549	1.236	5.861	<0.0001
00620	Nitrate (mg/L)	UpperBasin	17474-SURFACE-12169-SURFACE	3.574	0.631	6.517	0.0037
00620	Nitrate (mg/L)	UpperBasin	16899-SURFACE-12180-SURFACE	2.932	0.331	5.533	0.0115
00620	Nitrate (mg/L)	UpperBasin	17474-SURFACE-12180-SURFACE	5.167	2.576	7.757	<0.0001
00620	Nitrate (mg/L)	UpperBasin	16899-SURFACE-12363-SURFACE	2.674	0.601	4.747	0.0013
00620	Nitrate (mg/L)	UpperBasin	17474-SURFACE-12363-SURFACE	4.908	2.848	6.969	<0.0001
00620	Nitrate (mg/L)	UpperBasin	17474-SURFACE-12365-SURFACE	3.750	1.373	6.127	<0.0001
00620	Nitrate (mg/L)	UpperBasin	16899-SURFACE-12511-SURFACE	2.919	0.415	5.424	0.0071
00620	Nitrate (mg/L)	UpperBasin	17474-SURFACE-12511-SURFACE	5.154	2.660	7.648	<0.0001
00620	Nitrate (mg/L)	UpperBasin	16899-SURFACE-13651-SURFACE	2.407	0.388	4.426	0.005
00620	Nitrate (mg/L)	UpperBasin	17474-SURFACE-13651-SURFACE	4.641	2.635	6.647	<0.0001
00620	Nitrate (mg/L)	UpperBasin	17474-SURFACE-15536-SURFACE	4.499	2.187	6.812	<0.0001
00620	Nitrate (mg/L)	UpperBasin	16901-SURFACE-16899-SURFACE	-2.545	-4.618	-0.472	0.0031
00620	Nitrate (mg/L)	UpperBasin	17002-SURFACE-16899-SURFACE	-2.875	-4.948	-0.802	3e-04
00620	Nitrate (mg/L)	UpperBasin	17244-SURFACE-16899-SURFACE	-2.503	-4.624	-0.382	0.0059
00620	Nitrate (mg/L)	UpperBasin	17474-SURFACE-16899-SURFACE	2.234	0.202	4.266	0.0162
00620	Nitrate (mg/L)	UpperBasin	17474-SURFACE-16901-SURFACE	4.779	2.719	6.839	<0.0001
00620	Nitrate (mg/L)	UpperBasin	17474-SURFACE-17002-SURFACE	5.109	3.049	7.169	<0.0001
00620	Nitrate (mg/L)	UpperBasin	17474-SURFACE-17244-SURFACE	4.737	2.629	6.846	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	17474-SURFACE-12156-SURFACE	-0.903	-1.692	-0.113	0.008
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	12169-SURFACE-12158-SURFACE	-1.414	-2.509	-0.320	9e-04

00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	12180-SURFACE-12158-SURFACE	-1.501	-2.379	-0.622	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	12359-SURFACE-12158-SURFACE	-1.288	-2.383	-0.194	0.005
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	12360-SURFACE-12158-SURFACE	-0.811	-1.609	-0.013	0.0416
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	12363-SURFACE-12158-SURFACE	-1.024	-1.822	-0.225	0.001
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	12511-SURFACE-12158-SURFACE	-1.387	-2.365	-0.408	1e-04
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	12513-SURFACE-12158-SURFACE	-1.286	-2.248	-0.324	4e-04
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	13651-SURFACE-12158-SURFACE	-1.391	-2.220	-0.563	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	13863-SURFACE-12158-SURFACE	-1.221	-2.217	-0.224	0.0024
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	15536-SURFACE-12158-SURFACE	-1.049	-1.937	-0.161	0.0046
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	16899-SURFACE-12158-SURFACE	-1.362	-2.184	-0.539	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	16901-SURFACE-12158-SURFACE	-1.392	-2.215	-0.569	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	17244-SURFACE-12158-SURFACE	-1.214	-2.062	-0.367	1e-04
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	17474-SURFACE-12158-SURFACE	-1.614	-2.412	-0.815	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	21614-SURFACE-12158-SURFACE	-1.511	-2.551	-0.471	1e-04
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	17474-SURFACE-12160-SURFACE	-0.970	-1.778	-0.162	0.0035
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	12365-SURFACE-12180-SURFACE	1.080	0.259	1.902	6e-04
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	17002-SURFACE-12180-SURFACE	1.049	0.223	1.875	0.0012
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	17474-SURFACE-12360-SURFACE	-0.803	-1.522	-0.083	0.0118
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	12511-SURFACE-12365-SURFACE	-0.966	-1.894	-0.039	0.0303
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	13651-SURFACE-12365-SURFACE	-0.971	-1.738	-0.204	0.0013
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	16899-SURFACE-12365-SURFACE	-0.941	-1.702	-0.180	0.002

00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	16901-SURFACE-12365-SURFACE	-0.972	-1.733	-0.210	0.0011
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	17244-SURFACE-12365-SURFACE	-0.794	-1.582	-0.006	0.0456
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	17474-SURFACE-12365-SURFACE	-1.193	-1.928	-0.458	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	21614-SURFACE-12365-SURFACE	-1.091	-2.083	-0.099	0.0145
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	17002-SURFACE-12511-SURFACE	0.935	0.003	1.867	0.0481
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	17002-SURFACE-13651-SURFACE	0.940	0.167	1.712	0.0028
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	17002-SURFACE-16899-SURFACE	0.910	0.143	1.676	0.0043
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	17002-SURFACE-16901-SURFACE	0.940	0.174	1.707	0.0024
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	17474-SURFACE-17002-SURFACE	-1.162	-1.902	-0.421	<0.0001
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	21614-SURFACE-17002-SURFACE	-1.059	-2.055	-0.063	0.0232
00625	Total Kjeldahl Nitrogen (mg/L)	UpperBasin	18338-SURFACE-17474-SURFACE	0.981	0.163	1.799	0.0036
00665	Total Phosphorus (mg/L)	UpperBasin	12158-SURFACE-12156-SURFACE	1.444	1.021	1.868	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	12160-SURFACE-12158-SURFACE	-1.626	-2.045	-1.207	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	12169-SURFACE-12158-SURFACE	-1.659	-2.208	-1.110	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	12359-SURFACE-12158-SURFACE	-1.735	-2.304	-1.166	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	12360-SURFACE-12158-SURFACE	-1.606	-2.013	-1.199	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	12363-SURFACE-12158-SURFACE	-1.640	-2.016	-1.264	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	12365-SURFACE-12158-SURFACE	-1.514	-1.890	-1.138	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	12511-SURFACE-12158-SURFACE	-1.766	-2.217	-1.315	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	12513-SURFACE-12158-SURFACE	-1.747	-2.205	-1.290	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	13651-SURFACE-12158-SURFACE	-1.721	-2.132	-1.311	<0.0001

00665	Total Phosphorus (mg/L)	UpperBasin	13863-SURFACE-12158-SURFACE	-1.734	-2.252	-1.217	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	15536-SURFACE-12158-SURFACE	-1.712	-2.145	-1.280	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	16899-SURFACE-12158-SURFACE	-1.681	-2.082	-1.281	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	16901-SURFACE-12158-SURFACE	-1.699	-2.113	-1.284	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	17002-SURFACE-12158-SURFACE	-1.576	-1.979	-1.172	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	17244-SURFACE-12158-SURFACE	-1.690	-2.101	-1.279	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	17474-SURFACE-12158-SURFACE	-1.562	-1.949	-1.175	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	18338-SURFACE-12158-SURFACE	-1.648	-2.105	-1.190	<0.0001
00665	Total Phosphorus (mg/L)	UpperBasin	21614-SURFACE-12158-SURFACE	-1.737	-2.230	-1.244	<0.0001
00940	Chloride (mg/L)	UpperBasin	12160-SURFACE-12156-SURFACE	1433.556	550.414	2316.698	<0.0001
00940	Chloride (mg/L)	UpperBasin	12169-SURFACE-12156-SURFACE	-1182.319	-2346.355	-18.282	0.0416
00940	Chloride (mg/L)	UpperBasin	12180-SURFACE-12156-SURFACE	-1311.580	-2227.504	-395.655	1e-04
00940	Chloride (mg/L)	UpperBasin	12363-SURFACE-12156-SURFACE	1588.261	769.476	2407.046	<0.0001
00940	Chloride (mg/L)	UpperBasin	12511-SURFACE-12156-SURFACE	-1166.110	-2151.818	-180.402	0.0045
00940	Chloride (mg/L)	UpperBasin	12513-SURFACE-12156-SURFACE	-1183.060	-2168.768	-197.352	0.0035
00940	Chloride (mg/L)	UpperBasin	13651-SURFACE-12156-SURFACE	-1056.758	-1883.861	-229.655	0.0011
00940	Chloride (mg/L)	UpperBasin	15536-SURFACE-12156-SURFACE	-1223.830	-2149.364	-298.297	5e-04
00940	Chloride (mg/L)	UpperBasin	16899-SURFACE-12156-SURFACE	-1036.182	-1867.730	-204.634	0.0017
00940	Chloride (mg/L)	UpperBasin	16901-SURFACE-12156-SURFACE	-1147.041	-1978.589	-315.493	2e-04
00940	Chloride (mg/L)	UpperBasin	17244-SURFACE-12156-SURFACE	-1191.802	-2049.029	-334.574	2e-04
00940	Chloride (mg/L)	UpperBasin	17474-SURFACE-12156-SURFACE	-1168.217	-1983.104	-353.331	1e-04
00940	Chloride (mg/L)	UpperBasin	21614-SURFACE-12156-SURFACE	-1283.154	-2339.270	-227.039	0.0028
00940	Chloride (mg/L)	UpperBasin	12169-SURFACE-12158-SURFACE	-1968.071	-3116.026	-820.116	<0.0001
00940	Chloride (mg/L)	UpperBasin	12180-SURFACE-12158-SURFACE	-2097.332	-2992.731	-1201.933	<0.0001
00940	Chloride (mg/L)	UpperBasin	12359-SURFACE-12158-SURFACE	-1698.063	-2846.018	-550.107	<0.0001
00940	Chloride (mg/L)	UpperBasin	12363-SURFACE-12158-SURFACE	802.509	6.752	1598.266	0.0453
00940	Chloride (mg/L)	UpperBasin	12511-SURFACE-12158-SURFACE	-1951.863	-2918.527	-985.198	<0.0001
00940	Chloride (mg/L)	UpperBasin	12513-SURFACE-12158-SURFACE	-1968.813	-2935.477	-1002.148	<0.0001

00940	Chloride (mg/L)	UpperBasin	13651-SURFACE-12158-SURFACE	-1842.510	-2646.824	-1038.196	<0.0001
00940	Chloride (mg/L)	UpperBasin	13863-SURFACE-12158-SURFACE	-1566.938	-2605.302	-528.573	<0.0001
00940	Chloride (mg/L)	UpperBasin	15536-SURFACE-12158-SURFACE	-2009.583	-2914.808	-1104.357	<0.0001
00940	Chloride (mg/L)	UpperBasin	16899-SURFACE-12158-SURFACE	-1821.934	-2630.818	-1013.051	<0.0001
00940	Chloride (mg/L)	UpperBasin	16901-SURFACE-12158-SURFACE	-1932.793	-2741.677	-1123.910	<0.0001
00940	Chloride (mg/L)	UpperBasin	17244-SURFACE-12158-SURFACE	-1977.554	-2812.814	-1142.294	<0.0001
00940	Chloride (mg/L)	UpperBasin	17474-SURFACE-12158-SURFACE	-1953.969	-2745.715	-1162.224	<0.0001
00940	Chloride (mg/L)	UpperBasin	21614-SURFACE-12158-SURFACE	-2068.906	-3107.271	-1030.542	<0.0001
00940	Chloride (mg/L)	UpperBasin	12169-SURFACE-12160-SURFACE	-2615.875	-3774.219	-1457.531	<0.0001
00940	Chloride (mg/L)	UpperBasin	12180-SURFACE-12160-SURFACE	-2745.136	-3653.816	-1836.456	<0.0001
00940	Chloride (mg/L)	UpperBasin	12359-SURFACE-12160-SURFACE	-2345.867	-3504.211	-1187.523	<0.0001
00940	Chloride (mg/L)	UpperBasin	12360-SURFACE-12160-SURFACE	-1204.267	-2023.340	-385.194	<0.0001
00940	Chloride (mg/L)	UpperBasin	12365-SURFACE-12160-SURFACE	-1170.072	-1993.633	-346.511	1e-04
00940	Chloride (mg/L)	UpperBasin	12511-SURFACE-12160-SURFACE	-2599.667	-3578.646	-1620.687	<0.0001
00940	Chloride (mg/L)	UpperBasin	12513-SURFACE-12160-SURFACE	-2616.617	-3595.596	-1637.637	<0.0001
00940	Chloride (mg/L)	UpperBasin	13651-SURFACE-12160-SURFACE	-2490.314	-3309.387	-1671.241	<0.0001
00940	Chloride (mg/L)	UpperBasin	13863-SURFACE-12160-SURFACE	-2214.742	-3264.580	-1164.903	<0.0001
00940	Chloride (mg/L)	UpperBasin	15536-SURFACE-12160-SURFACE	-2657.387	-3575.751	-1739.023	<0.0001
00940	Chloride (mg/L)	UpperBasin	16899-SURFACE-12160-SURFACE	-2469.738	-3293.299	-1646.177	<0.0001
00940	Chloride (mg/L)	UpperBasin	16901-SURFACE-12160-SURFACE	-2580.597	-3404.158	-1757.036	<0.0001
00940	Chloride (mg/L)	UpperBasin	17002-SURFACE-12160-SURFACE	-1289.577	-2117.836	-461.318	<0.0001
00940	Chloride (mg/L)	UpperBasin	17244-SURFACE-12160-SURFACE	-2625.358	-3474.840	-1775.876	<0.0001
00940	Chloride (mg/L)	UpperBasin	17474-SURFACE-12160-SURFACE	-2601.774	-3408.508	-1795.039	<0.0001
00940	Chloride (mg/L)	UpperBasin	21614-SURFACE-12160-SURFACE	-2716.710	-3766.549	-1666.872	<0.0001
00940	Chloride (mg/L)	UpperBasin	12360-SURFACE-12169-SURFACE	1411.608	295.400	2527.817	0.0013
00940	Chloride (mg/L)	UpperBasin	12363-SURFACE-12169-SURFACE	2770.580	1660.521	3880.638	<0.0001
00940	Chloride (mg/L)	UpperBasin	12365-SURFACE-12169-SURFACE	1445.803	326.297	2565.309	8e-04
00940	Chloride (mg/L)	UpperBasin	17002-SURFACE-12169-SURFACE	1326.298	203.331	2449.264	0.0046
00940	Chloride (mg/L)	UpperBasin	18338-SURFACE-12169-SURFACE	1757.453	580.866	2934.040	<0.0001
00940	Chloride (mg/L)	UpperBasin	12360-SURFACE-12180-SURFACE	1540.869	686.551	2395.187	<0.0001
00940	Chloride (mg/L)	UpperBasin	12363-SURFACE-12180-SURFACE	2899.841	2053.574	3746.107	<0.0001
00940	Chloride (mg/L)	UpperBasin	12365-SURFACE-12180-SURFACE	1575.064	716.442	2433.686	<0.0001

00940	Chloride (mg/L)	UpperBasin	17002-SURFACE-12180-SURFACE	1455.559	592.430	2318.688	<0.0001
00940	Chloride (mg/L)	UpperBasin	18338-SURFACE-12180-SURFACE	1886.714	954.890	2818.537	<0.0001
00940	Chloride (mg/L)	UpperBasin	12360-SURFACE-12359-SURFACE	1141.600	25.392	2257.808	0.0383
00940	Chloride (mg/L)	UpperBasin	12363-SURFACE-12359-SURFACE	2500.571	1390.513	3610.630	<0.0001
00940	Chloride (mg/L)	UpperBasin	12365-SURFACE-12359-SURFACE	1175.795	56.289	2295.301	0.0273
00940	Chloride (mg/L)	UpperBasin	18338-SURFACE-12359-SURFACE	1487.444	310.858	2664.031	0.0013
00940	Chloride (mg/L)	UpperBasin	12363-SURFACE-12360-SURFACE	1358.971	609.739	2108.204	<0.0001
00940	Chloride (mg/L)	UpperBasin	12511-SURFACE-12360-SURFACE	-1395.400	-2324.141	-466.659	<0.0001
00940	Chloride (mg/L)	UpperBasin	12513-SURFACE-12360-SURFACE	-1412.350	-2341.091	-483.609	<0.0001
00940	Chloride (mg/L)	UpperBasin	13651-SURFACE-12360-SURFACE	-1286.048	-2044.362	-527.733	<0.0001
00940	Chloride (mg/L)	UpperBasin	13863-SURFACE-12360-SURFACE	-1010.475	-2013.630	-7.320	0.0459
00940	Chloride (mg/L)	UpperBasin	15536-SURFACE-12360-SURFACE	-1453.120	-2317.731	-588.509	<0.0001
00940	Chloride (mg/L)	UpperBasin	16899-SURFACE-12360-SURFACE	-1265.472	-2028.631	-502.312	<0.0001
00940	Chloride (mg/L)	UpperBasin	16901-SURFACE-12360-SURFACE	-1376.331	-2139.490	-613.171	<0.0001
00940	Chloride (mg/L)	UpperBasin	17244-SURFACE-12360-SURFACE	-1421.091	-2212.153	-630.029	<0.0001
00940	Chloride (mg/L)	UpperBasin	17474-SURFACE-12360-SURFACE	-1397.507	-2142.477	-652.537	<0.0001
00940	Chloride (mg/L)	UpperBasin	21614-SURFACE-12360-SURFACE	-1512.444	-2515.599	-509.288	<0.0001
00940	Chloride (mg/L)	UpperBasin	12365-SURFACE-12363-SURFACE	-1324.777	-2078.913	-570.640	<0.0001
00940	Chloride (mg/L)	UpperBasin	12511-SURFACE-12363-SURFACE	-2754.371	-3675.712	-1833.030	<0.0001
00940	Chloride (mg/L)	UpperBasin	12513-SURFACE-12363-SURFACE	-2771.321	-3692.662	-1849.980	<0.0001
00940	Chloride (mg/L)	UpperBasin	13651-SURFACE-12363-SURFACE	-2645.019	-3394.251	-1895.787	<0.0001
00940	Chloride (mg/L)	UpperBasin	13863-SURFACE-12363-SURFACE	-2369.446	-3365.754	-1373.139	<0.0001
00940	Chloride (mg/L)	UpperBasin	15536-SURFACE-12363-SURFACE	-2812.091	-3668.748	-1955.435	<0.0001
00940	Chloride (mg/L)	UpperBasin	16899-SURFACE-12363-SURFACE	-2624.443	-3378.579	-1870.307	<0.0001
00940	Chloride (mg/L)	UpperBasin	16901-SURFACE-12363-SURFACE	-2735.302	-3489.438	-1981.166	<0.0001
00940	Chloride (mg/L)	UpperBasin	17002-SURFACE-12363-SURFACE	-1444.282	-2203.546	-685.018	<0.0001
00940	Chloride (mg/L)	UpperBasin	17244-SURFACE-12363-SURFACE	-2780.063	-3562.423	-1997.702	<0.0001
00940	Chloride (mg/L)	UpperBasin	17474-SURFACE-12363-SURFACE	-2756.478	-3492.202	-2020.755	<0.0001
00940	Chloride (mg/L)	UpperBasin	18338-SURFACE-12363-SURFACE	-1013.127	-1849.658	-176.596	0.003
00940	Chloride (mg/L)	UpperBasin	21614-SURFACE-12363-SURFACE	-2871.415	-3867.723	-1875.107	<0.0001
00940	Chloride (mg/L)	UpperBasin	12511-SURFACE-12365-SURFACE	-1429.595	-2362.297	-496.893	<0.0001
00940	Chloride (mg/L)	UpperBasin	12513-SURFACE-12365-SURFACE	-1446.545	-2379.247	-513.843	<0.0001

00940	Chloride (mg/L)	UpperBasin	13651-SURFACE-12365-SURFACE	-1320.242	-2083.402	-557.083	<0.0001
00940	Chloride (mg/L)	UpperBasin	13863-SURFACE-12365-SURFACE	-1044.670	-2051.493	-37.847	0.032
00940	Chloride (mg/L)	UpperBasin	15536-SURFACE-12365-SURFACE	-1487.315	-2356.179	-618.451	<0.0001
00940	Chloride (mg/L)	UpperBasin	16899-SURFACE-12365-SURFACE	-1299.667	-2067.641	-531.692	<0.0001
00940	Chloride (mg/L)	UpperBasin	16901-SURFACE-12365-SURFACE	-1410.526	-2178.500	-642.551	<0.0001
00940	Chloride (mg/L)	UpperBasin	17244-SURFACE-12365-SURFACE	-1455.286	-2250.994	-659.578	<0.0001
00940	Chloride (mg/L)	UpperBasin	17474-SURFACE-12365-SURFACE	-1431.702	-2181.604	-681.800	<0.0001
00940	Chloride (mg/L)	UpperBasin	21614-SURFACE-12365-SURFACE	-1546.639	-2553.462	-539.815	<0.0001
00940	Chloride (mg/L)	UpperBasin	17002-SURFACE-12511-SURFACE	1310.089	373.237	2246.942	1e-04
00940	Chloride (mg/L)	UpperBasin	18338-SURFACE-12511-SURFACE	1741.244	740.746	2741.742	<0.0001
00940	Chloride (mg/L)	UpperBasin	17002-SURFACE-12513-SURFACE	1327.039	390.187	2263.892	1e-04
00940	Chloride (mg/L)	UpperBasin	18338-SURFACE-12513-SURFACE	1758.194	757.696	2758.692	<0.0001
00940	Chloride (mg/L)	UpperBasin	17002-SURFACE-13651-SURFACE	1200.737	432.510	1968.964	<0.0001
00940	Chloride (mg/L)	UpperBasin	18338-SURFACE-13651-SURFACE	1631.892	787.217	2476.567	<0.0001
00940	Chloride (mg/L)	UpperBasin	18338-SURFACE-13863-SURFACE	1356.319	286.387	2426.252	0.0012
00940	Chloride (mg/L)	UpperBasin	17002-SURFACE-15536-SURFACE	1367.809	494.491	2241.128	<0.0001
00940	Chloride (mg/L)	UpperBasin	18338-SURFACE-15536-SURFACE	1798.964	857.695	2740.234	<0.0001
00940	Chloride (mg/L)	UpperBasin	17002-SURFACE-16899-SURFACE	1180.161	407.151	1953.172	<0.0001
00940	Chloride (mg/L)	UpperBasin	18338-SURFACE-16899-SURFACE	1611.316	762.288	2460.344	<0.0001
00940	Chloride (mg/L)	UpperBasin	17002-SURFACE-16901-SURFACE	1291.020	518.010	2064.031	<0.0001
00940	Chloride (mg/L)	UpperBasin	18338-SURFACE-16901-SURFACE	1722.175	873.147	2571.203	<0.0001
00940	Chloride (mg/L)	UpperBasin	17244-SURFACE-17002-SURFACE	-1335.781	-2136.350	-535.211	<0.0001
00940	Chloride (mg/L)	UpperBasin	17474-SURFACE-17002-SURFACE	-1312.196	-2067.255	-557.138	<0.0001
00940	Chloride (mg/L)	UpperBasin	21614-SURFACE-17002-SURFACE	-1427.133	-2437.803	-416.463	1e-04
00940	Chloride (mg/L)	UpperBasin	18338-SURFACE-17244-SURFACE	1766.936	892.742	2641.129	<0.0001
00940	Chloride (mg/L)	UpperBasin	18338-SURFACE-17474-SURFACE	1743.351	910.635	2576.068	<0.0001
00940	Chloride (mg/L)	UpperBasin	21614-SURFACE-18338-SURFACE	-1858.288	-2928.221	-788.355	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12158-SURFACE-12156-SURFACE	585.880	112.779	1058.982	0.002
00945	Sulfate (mg/L)	UpperBasin	12160-SURFACE-12156-SURFACE	1871.057	1390.517	2351.598	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12360-SURFACE-12156-SURFACE	451.074	1.026	901.123	0.0487
00945	Sulfate (mg/L)	UpperBasin	12363-SURFACE-12156-SURFACE	640.838	199.471	1082.205	1e-04
00945	Sulfate (mg/L)	UpperBasin	13651-SURFACE-12156-SURFACE	518.578	70.842	966.314	0.0065

00945	Sulfate (mg/L)	UpperBasin	18338-SURFACE-12156-SURFACE	510.132	16.643	1003.620	0.0335
00945	Sulfate (mg/L)	UpperBasin	21614-SURFACE-12156-SURFACE	-613.970	-1188.630	-39.310	0.0217
00945	Sulfate (mg/L)	UpperBasin	12160-SURFACE-12158-SURFACE	1285.177	816.230	1754.124	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12169-SURFACE-12158-SURFACE	-1016.698	-1641.330	-392.066	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12180-SURFACE-12158-SURFACE	-1073.041	-1560.251	-585.831	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12359-SURFACE-12158-SURFACE	-890.823	-1515.455	-266.191	1e-04
00945	Sulfate (mg/L)	UpperBasin	12365-SURFACE-12158-SURFACE	-750.631	-1188.279	-312.983	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12511-SURFACE-12158-SURFACE	-1064.106	-1590.094	-538.119	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12513-SURFACE-12158-SURFACE	-1074.856	-1600.844	-548.869	<0.0001
00945	Sulfate (mg/L)	UpperBasin	13863-SURFACE-12158-SURFACE	-935.906	-1500.907	-370.905	<0.0001
00945	Sulfate (mg/L)	UpperBasin	15536-SURFACE-12158-SURFACE	-1057.276	-1549.833	-564.720	<0.0001
00945	Sulfate (mg/L)	UpperBasin	16899-SURFACE-12158-SURFACE	-813.105	-1253.240	-372.970	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17244-SURFACE-12158-SURFACE	-791.874	-1246.361	-337.387	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17474-SURFACE-12158-SURFACE	-959.761	-1390.570	-528.952	<0.0001
00945	Sulfate (mg/L)	UpperBasin	21614-SURFACE-12158-SURFACE	-1199.850	-1764.851	-634.849	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12169-SURFACE-12160-SURFACE	-2301.875	-2932.160	-1671.590	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12180-SURFACE-12160-SURFACE	-2358.218	-2852.654	-1863.782	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12359-SURFACE-12160-SURFACE	-2176.000	-2806.285	-1545.715	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12360-SURFACE-12160-SURFACE	-1419.983	-1865.662	-974.304	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12363-SURFACE-12160-SURFACE	-1230.220	-1667.130	-793.309	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12365-SURFACE-12160-SURFACE	-2035.808	-2481.487	-1590.129	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12511-SURFACE-12160-SURFACE	-2349.283	-2881.972	-1816.595	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12513-SURFACE-12160-SURFACE	-2360.033	-2892.722	-1827.345	<0.0001
00945	Sulfate (mg/L)	UpperBasin	13651-SURFACE-12160-SURFACE	-1352.480	-1795.823	-909.136	<0.0001
00945	Sulfate (mg/L)	UpperBasin	13863-SURFACE-12160-SURFACE	-2221.083	-2792.328	-1649.839	<0.0001
00945	Sulfate (mg/L)	UpperBasin	15536-SURFACE-12160-SURFACE	-2342.453	-2842.159	-1842.747	<0.0001
00945	Sulfate (mg/L)	UpperBasin	16899-SURFACE-12160-SURFACE	-2098.282	-2546.403	-1650.161	<0.0001
00945	Sulfate (mg/L)	UpperBasin	16901-SURFACE-12160-SURFACE	-1618.179	-2066.301	-1170.058	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17002-SURFACE-12160-SURFACE	-1475.202	-1925.879	-1024.524	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17244-SURFACE-12160-SURFACE	-2077.051	-2539.276	-1614.826	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17474-SURFACE-12160-SURFACE	-2244.938	-2683.903	-1805.973	<0.0001
00945	Sulfate (mg/L)	UpperBasin	18338-SURFACE-12160-SURFACE	-1360.926	-1850.433	-871.419	<0.0001

00945	Sulfate (mg/L)	UpperBasin	21614-SURFACE-12160-SURFACE	-2485.027	-3056.272	-1913.783	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12360-SURFACE-12169-SURFACE	881.892	274.534	1489.250	1e-04
00945	Sulfate (mg/L)	UpperBasin	12363-SURFACE-12169-SURFACE	1071.655	470.702	1672.609	<0.0001
00945	Sulfate (mg/L)	UpperBasin	13651-SURFACE-12169-SURFACE	949.395	343.749	1555.042	<0.0001
00945	Sulfate (mg/L)	UpperBasin	16901-SURFACE-12169-SURFACE	683.696	74.543	1292.848	0.0106
00945	Sulfate (mg/L)	UpperBasin	17002-SURFACE-12169-SURFACE	826.673	215.638	1437.709	3e-04
00945	Sulfate (mg/L)	UpperBasin	18338-SURFACE-12169-SURFACE	940.949	300.737	1581.161	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12360-SURFACE-12180-SURFACE	938.235	473.378	1403.091	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12363-SURFACE-12180-SURFACE	1127.998	671.541	1584.455	<0.0001
00945	Sulfate (mg/L)	UpperBasin	13651-SURFACE-12180-SURFACE	1005.738	543.120	1468.356	<0.0001
00945	Sulfate (mg/L)	UpperBasin	16901-SURFACE-12180-SURFACE	740.038	272.840	1207.237	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17002-SURFACE-12180-SURFACE	883.016	413.365	1352.667	<0.0001
00945	Sulfate (mg/L)	UpperBasin	18338-SURFACE-12180-SURFACE	997.292	490.263	1504.321	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12360-SURFACE-12359-SURFACE	756.017	148.659	1363.375	0.0018
00945	Sulfate (mg/L)	UpperBasin	12363-SURFACE-12359-SURFACE	945.780	344.827	1546.734	<0.0001
00945	Sulfate (mg/L)	UpperBasin	13651-SURFACE-12359-SURFACE	823.520	217.874	1429.167	3e-04
00945	Sulfate (mg/L)	UpperBasin	17002-SURFACE-12359-SURFACE	700.798	89.763	1311.834	0.0076
00945	Sulfate (mg/L)	UpperBasin	18338-SURFACE-12359-SURFACE	815.074	174.862	1455.286	0.0011
00945	Sulfate (mg/L)	UpperBasin	12365-SURFACE-12360-SURFACE	-615.825	-1028.444	-203.206	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12511-SURFACE-12360-SURFACE	-929.300	-1434.652	-423.948	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12513-SURFACE-12360-SURFACE	-940.050	-1445.402	-434.698	<0.0001
00945	Sulfate (mg/L)	UpperBasin	13863-SURFACE-12360-SURFACE	-801.100	-1346.943	-255.257	<0.0001
00945	Sulfate (mg/L)	UpperBasin	15536-SURFACE-12360-SURFACE	-922.470	-1392.928	-452.012	<0.0001
00945	Sulfate (mg/L)	UpperBasin	16899-SURFACE-12360-SURFACE	-678.299	-1093.554	-263.044	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17244-SURFACE-12360-SURFACE	-657.068	-1087.505	-226.630	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17474-SURFACE-12360-SURFACE	-824.955	-1230.312	-419.597	<0.0001
00945	Sulfate (mg/L)	UpperBasin	21614-SURFACE-12360-SURFACE	-1065.044	-1610.887	-519.201	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12365-SURFACE-12363-SURFACE	-805.589	-1208.720	-402.457	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12511-SURFACE-12363-SURFACE	-1119.064	-1616.700	-621.427	<0.0001
00945	Sulfate (mg/L)	UpperBasin	12513-SURFACE-12363-SURFACE	-1129.814	-1627.450	-632.177	<0.0001
00945	Sulfate (mg/L)	UpperBasin	13863-SURFACE-12363-SURFACE	-990.864	-1529.571	-452.156	<0.0001
00945	Sulfate (mg/L)	UpperBasin	15536-SURFACE-12363-SURFACE	-1112.234	-1574.393	-650.074	<0.0001

00945	Sulfate (mg/L)	UpperBasin	16899-SURFACE-12363-SURFACE	-868.062	-1273.892	-462.232	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17244-SURFACE-12363-SURFACE	-846.831	-1268.183	-425.479	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17474-SURFACE-12363-SURFACE	-1014.718	-1410.415	-619.021	<0.0001
00945	Sulfate (mg/L)	UpperBasin	21614-SURFACE-12363-SURFACE	-1254.807	-1793.515	-716.100	<0.0001
00945	Sulfate (mg/L)	UpperBasin	13651-SURFACE-12365-SURFACE	683.329	273.234	1093.424	<0.0001
00945	Sulfate (mg/L)	UpperBasin	16901-SURFACE-12365-SURFACE	417.629	2.374	832.884	0.0468
00945	Sulfate (mg/L)	UpperBasin	17002-SURFACE-12365-SURFACE	560.607	142.594	978.619	4e-04
00945	Sulfate (mg/L)	UpperBasin	18338-SURFACE-12365-SURFACE	674.882	215.273	1134.492	<0.0001
00945	Sulfate (mg/L)	UpperBasin	13651-SURFACE-12511-SURFACE	996.804	493.510	1500.098	<0.0001
00945	Sulfate (mg/L)	UpperBasin	16901-SURFACE-12511-SURFACE	731.104	223.596	1238.611	1e-04
00945	Sulfate (mg/L)	UpperBasin	17002-SURFACE-12511-SURFACE	874.082	364.315	1383.848	<0.0001
00945	Sulfate (mg/L)	UpperBasin	18338-SURFACE-12511-SURFACE	988.357	443.960	1532.754	<0.0001
00945	Sulfate (mg/L)	UpperBasin	13651-SURFACE-12513-SURFACE	1007.554	504.260	1510.848	<0.0001
00945	Sulfate (mg/L)	UpperBasin	16901-SURFACE-12513-SURFACE	741.854	234.346	1249.361	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17002-SURFACE-12513-SURFACE	884.832	375.065	1394.598	<0.0001
00945	Sulfate (mg/L)	UpperBasin	18338-SURFACE-12513-SURFACE	999.107	454.710	1543.504	<0.0001
00945	Sulfate (mg/L)	UpperBasin	13863-SURFACE-13651-SURFACE	-868.604	-1412.541	-324.666	<0.0001
00945	Sulfate (mg/L)	UpperBasin	15536-SURFACE-13651-SURFACE	-989.974	-1458.219	-521.728	<0.0001
00945	Sulfate (mg/L)	UpperBasin	16899-SURFACE-13651-SURFACE	-745.802	-1158.550	-333.055	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17244-SURFACE-13651-SURFACE	-724.571	-1152.590	-296.552	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17474-SURFACE-13651-SURFACE	-892.458	-1295.247	-489.670	<0.0001
00945	Sulfate (mg/L)	UpperBasin	21614-SURFACE-13651-SURFACE	-1132.547	-1676.485	-588.610	<0.0001
00945	Sulfate (mg/L)	UpperBasin	16901-SURFACE-13863-SURFACE	602.904	55.065	1150.743	0.0143
00945	Sulfate (mg/L)	UpperBasin	17002-SURFACE-13863-SURFACE	745.882	195.950	1295.813	3e-04
00945	Sulfate (mg/L)	UpperBasin	18338-SURFACE-13863-SURFACE	860.157	277.979	1442.336	<0.0001
00945	Sulfate (mg/L)	UpperBasin	16901-SURFACE-15536-SURFACE	724.274	251.502	1197.045	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17002-SURFACE-15536-SURFACE	867.252	392.056	1342.447	<0.0001
00945	Sulfate (mg/L)	UpperBasin	18338-SURFACE-15536-SURFACE	981.527	469.358	1493.697	<0.0001
00945	Sulfate (mg/L)	UpperBasin	16901-SURFACE-16899-SURFACE	480.103	62.228	897.978	0.0074
00945	Sulfate (mg/L)	UpperBasin	17002-SURFACE-16899-SURFACE	623.080	202.465	1043.696	<0.0001
00945	Sulfate (mg/L)	UpperBasin	18338-SURFACE-16899-SURFACE	737.356	275.378	1199.334	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17244-SURFACE-16901-SURFACE	-458.871	-891.837	-25.906	0.0243

00945	Sulfate (mg/L)	UpperBasin	17474-SURFACE-16901-SURFACE	-626.758	-1034.800	-218.717	<0.0001
00945	Sulfate (mg/L)	UpperBasin	21614-SURFACE-16901-SURFACE	-866.848	-1414.686	-319.009	<0.0001
00945	Sulfate (mg/L)	UpperBasin	17244-SURFACE-17002-SURFACE	-601.849	-1037.460	-166.238	2e-04
00945	Sulfate (mg/L)	UpperBasin	17474-SURFACE-17002-SURFACE	-769.736	-1180.583	-358.889	<0.0001
00945	Sulfate (mg/L)	UpperBasin	21614-SURFACE-17002-SURFACE	-1009.825	-1559.757	-459.894	<0.0001
00945	Sulfate (mg/L)	UpperBasin	18338-SURFACE-17244-SURFACE	716.125	240.453	1191.797	<0.0001
00945	Sulfate (mg/L)	UpperBasin	18338-SURFACE-17474-SURFACE	884.012	430.909	1337.115	<0.0001
00945	Sulfate (mg/L)	UpperBasin	21614-SURFACE-18338-SURFACE	-1124.101	-1706.280	-541.923	<0.0001
70953	Chlorophyll-a (µg/L)	UpperBasin	17002-SURFACE-12156-SURFACE	41.923	0.297	83.549	0.0464
70953	Chlorophyll-a (µg/L)	UpperBasin	12160-SURFACE-12158-SURFACE	52.355	10.729	93.982	0.0021
70953	Chlorophyll-a (µg/L)	UpperBasin	17002-SURFACE-12158-SURFACE	59.269	19.708	98.830	1e-04
70953	Chlorophyll-a (µg/L)	UpperBasin	12180-SURFACE-12160-SURFACE	-55.542	-99.966	-11.118	0.0023
70953	Chlorophyll-a (µg/L)	UpperBasin	12511-SURFACE-12160-SURFACE	-53.404	-101.886	-4.922	0.0159
70953	Chlorophyll-a (µg/L)	UpperBasin	13651-SURFACE-12160-SURFACE	-46.229	-87.586	-4.872	0.0131
70953	Chlorophyll-a (µg/L)	UpperBasin	17002-SURFACE-12180-SURFACE	62.456	19.961	104.951	1e-04
70953	Chlorophyll-a (µg/L)	UpperBasin	17002-SURFACE-12359-SURFACE	55.716	0.947	110.486	0.0416
70953	Chlorophyll-a (µg/L)	UpperBasin	17002-SURFACE-12511-SURFACE	60.317	13.597	107.038	0.0013
70953	Chlorophyll-a (µg/L)	UpperBasin	17002-SURFACE-12513-SURFACE	53.402	6.681	100.123	0.0096
70953	Chlorophyll-a (µg/L)	UpperBasin	17002-SURFACE-13651-SURFACE	53.143	13.866	92.420	5e-04
70953	Chlorophyll-a (µg/L)	UpperBasin	17002-SURFACE-13863-SURFACE	52.666	3.215	102.117	0.0244
00530	Total Suspended Solids (mg/L)	UpperBasin	12365-SURFACE-12160-SURFACE	59.621	3.667	115.575	0.0319